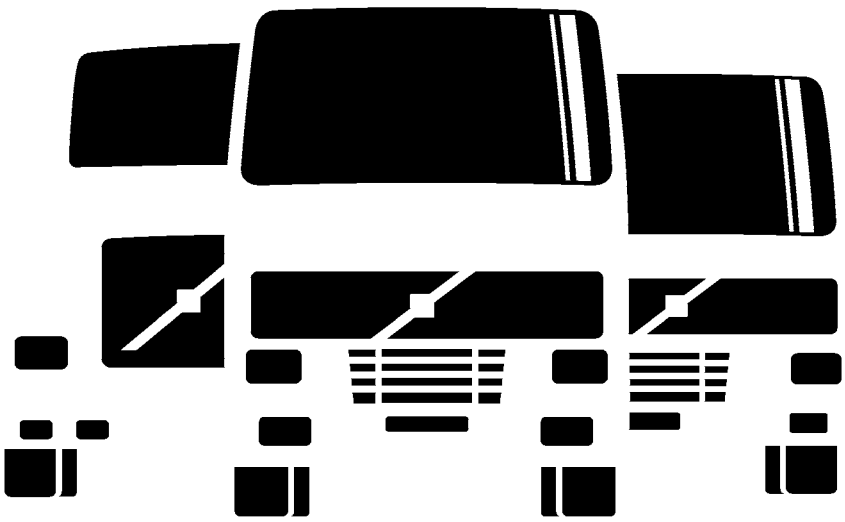
Service Manual
Trucks

Group **85**

Cab, Upholstery

VN



PV776-TSP133527

VOLVO

Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to February 2000.

The products are under continuous development. Vehicles and components produced after the above date may therefore have different specifications and repair methods. When this is believed to have a significant bearing on this manual, supplementary service bulletins will be issued to cover the changes.

The new edition of this manual will update the changes.

In service procedures where the title incorporates an operation number, this is a reference to an S.R.T. (Standard Repair Time).

Service procedures which do not include an operation number in the title are for general information and no reference is made to an S.R.T.

The following levels of observations, cautions and warnings are used in this Service Documentation:

Note: Indicates a procedure, practice, or condition that must be followed in order to have the vehicle or component function in the manner intended.

Caution: Indicates an unsafe practice where damage to the product could occur.

Warning: Indicates an unsafe practice where personal injury or severe damage to the product could occur.

Danger: Indicates an unsafe practice where serious personal injury or death could occur.

Volvo Trucks North America, Inc.
Greensboro, NC USA

Order number: PV776-TSP133527

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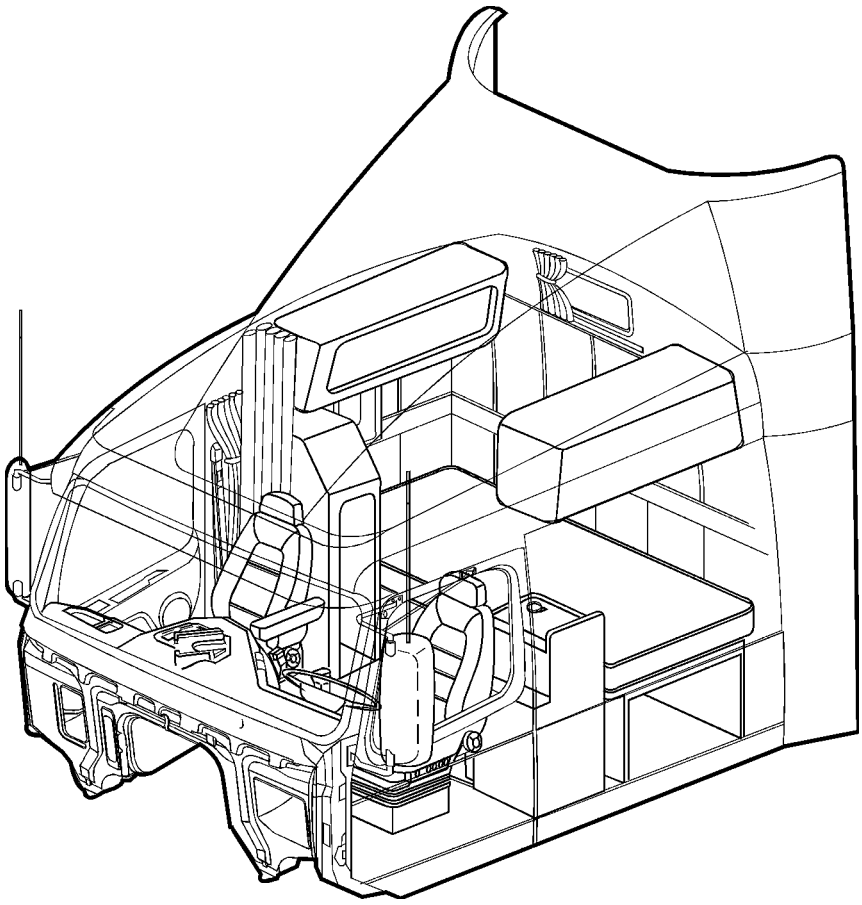
Operation Numbers

General



W9000178

This manual contains design and function and service procedures for upholstery, seats and other trimming. It covers all VN cabs.

Other cab components such as Electrical System and Air Conditioning and Heating System are not covered in this manual.
See Electrical System, group 3 and Air Conditioning and Heating System, Group 87.

General Precautions

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

WARNING

Always wear appropriate eye protection to prevent the risk of eye injury due to contact with debris or fluids.

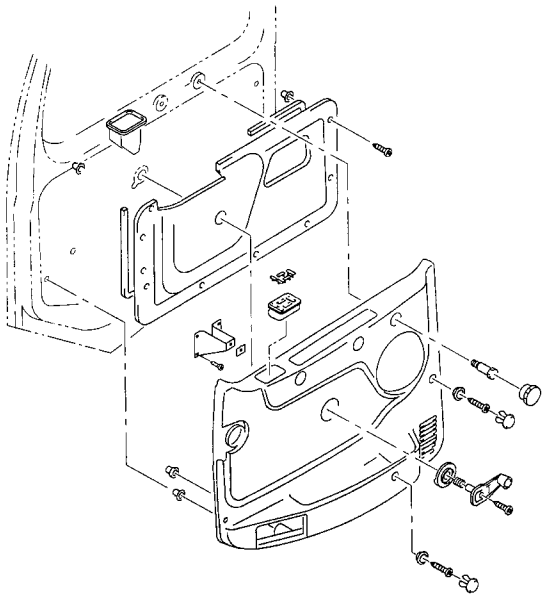
CAUTION

Possible damage to electronic components. Turn the vehicle ignition switch OFF before disconnecting or connecting any electrical components. Failure to de-energize circuits may result in electronic equipment damage.

Design and Function

Interior Door Panels

Door panels are made of form-pressed plastic and may have different types of fabric depending on the cab trim option. The panel is fastened with screws that are covered with plugs. There is also an inner plate covering the door functional parts.



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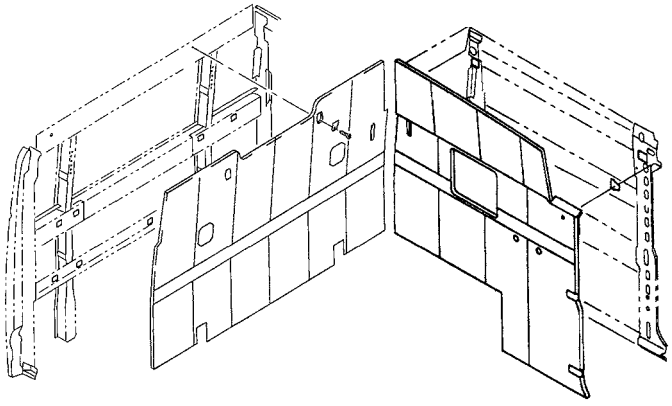
Wall Panels

Wall panels are made of urethane and fastened to the wall by trim, screws and press-type fasteners. Depending on the interior trim option, the panels are covered with different types of material.

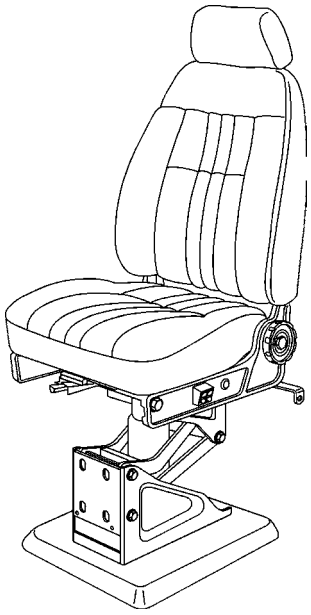


W8001383

Seats

There are several types of seats available. The standard offering is an air suspended, mid-back seat with head rest.

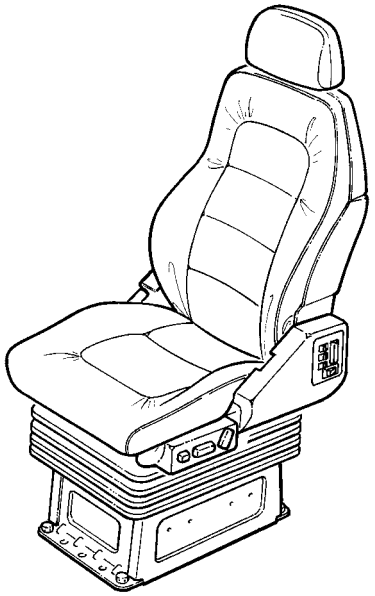
As an option, this seat comes with air operated support cushions in the back rest, seat and lumbar support. The front angle of the seat is adjustable and the bottom frame is protected by rubber bellows.



W8001431

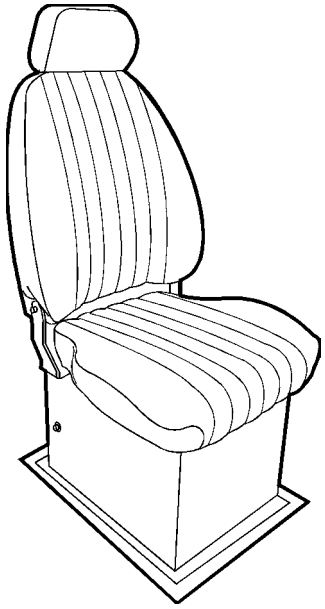
A luxury Volvo seat offers many adjustments and conveniences. These functions are electrically operated: seat cushion fore — aft; seat cushion tilt; seat fore-aft; complete backrest angle; upper part of backrest angle. These functions are air operated: upper, middle and lower lumbar support cushions; backrest side support cushions and seat height.

The seat is also equipped with heating elements in the seat cushion and lower backrest.



T8006503

For the passenger side, there is a stationary seat available as an option. The base of the seat is a storage box that is accessed by lifting the seat cushion up.



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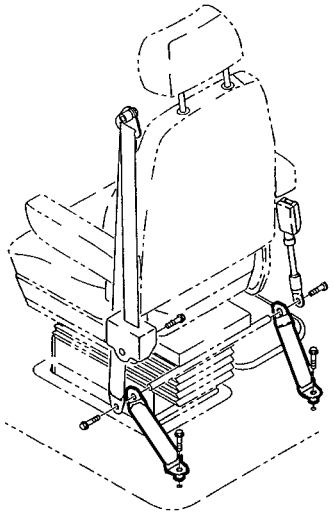
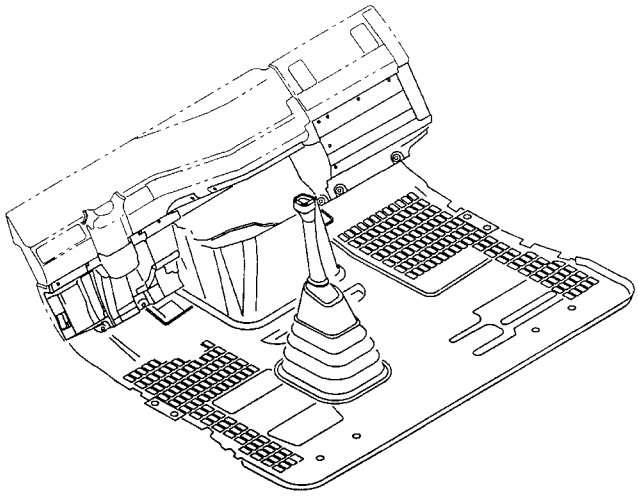
All seats, with exception of the Volvo seat and the stationary seat, have tethers that extend the safety belt anchoring. These tethers are not adjustable.



W8001387

Floor Covering

The floor mat is made of heavy foam rubber covered with synthetic rubber. It is held in place by the seats and scuff plates in the door openings. The mat bottom is contour molded to fit into the floor shape for good placement.



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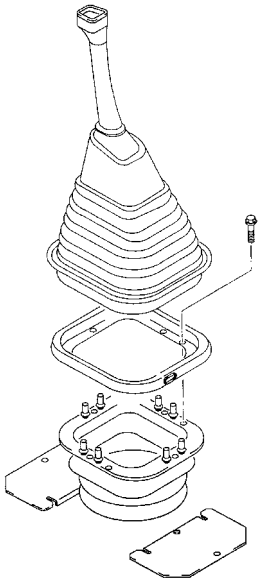
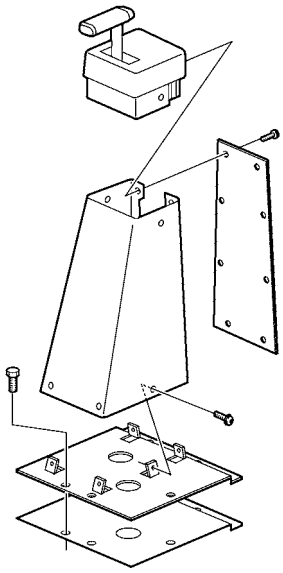
The shift lever opening for the manual shift lever is insulated from noise, dust and fumes by double boots. These are screwed to the floor, accessible from above.



W8001385

Manual shift lever mounting



W8002591

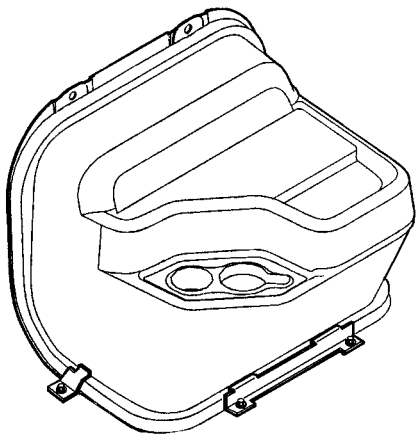
Automatic shift lever mounting

Engine Cover

The engine cover covers the cutout for the engine compartment. It is fastened with a total of 6 screws. 4 screws to the floor and 2 screws to the cowl.
It is covered around the edges by the floor mat.

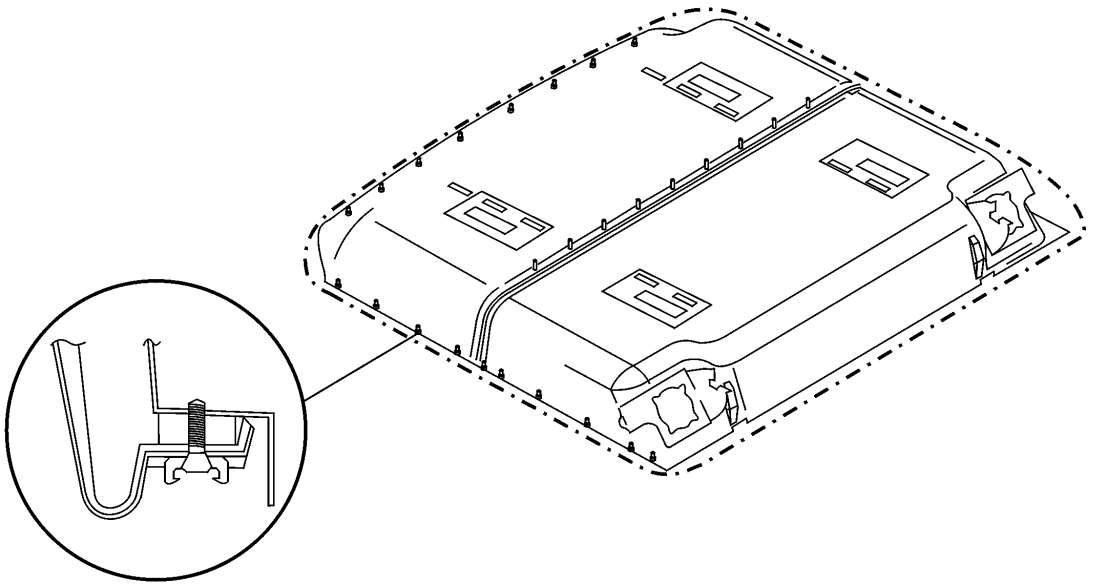
The engine cover is different for a VNL and a VNM. In the VNM cab, the engine is located further back into the cab, resulting in a larger cut-out in the floor.

To remove the engine cover, see “Engine Cover, Replacement” page 99.



W8002524

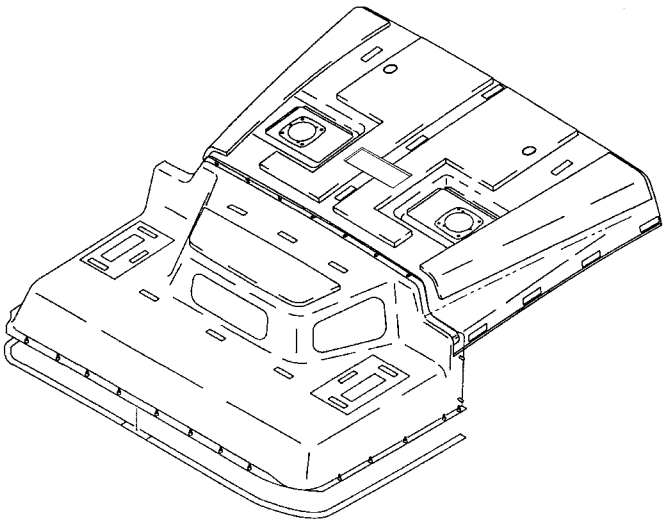
Headliners



W8002579

Headliners are made of form-pressed urethane. The day cab liner is made in one section but the sleeper cab liners are made as multiple sections. Headliners are mainly held in place by screws. In older vehicles there are also pressfasteners that holds the headliners.

In the sleeper cabs there are separate sections for the sleeper compartment.



W8001423

Service Procedures

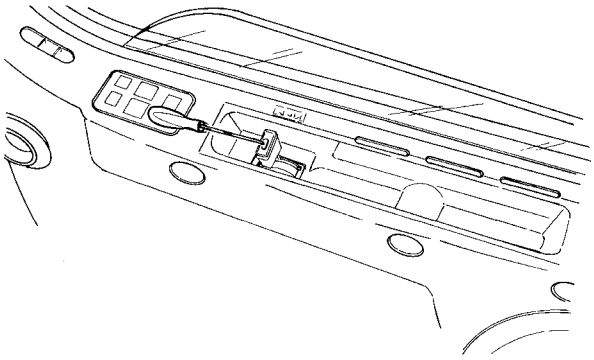
8511-03-02-01
Door Panel, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

Removal

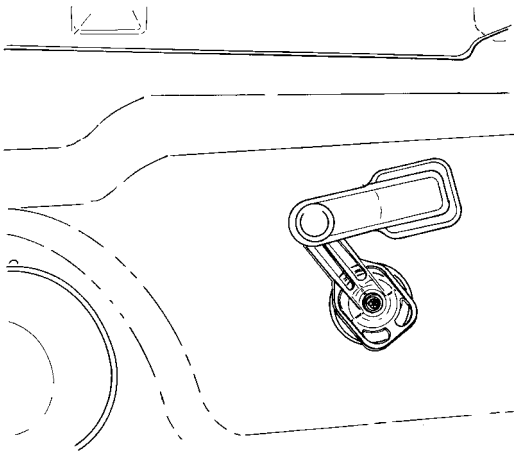
1



W8001398

Remove the knob on the door by pulling the rubber plug out with a scriber. Remove the screw. — Torx 10

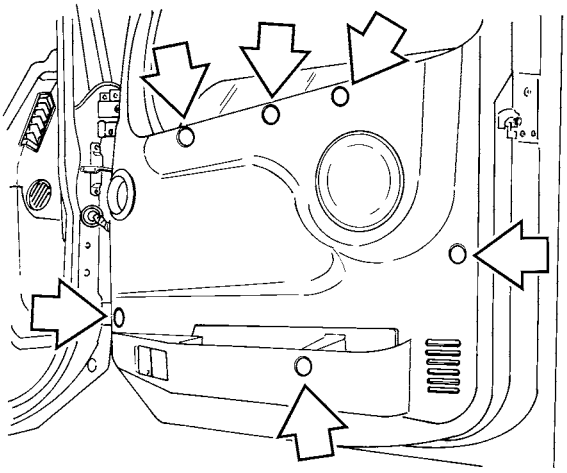
2



W8001379

If the vehicle is equipped with mechanical window regulators, remove the crank. Lift the vinyl cover in the wide end, twist it to one end. Remove the screw. — Torx 25

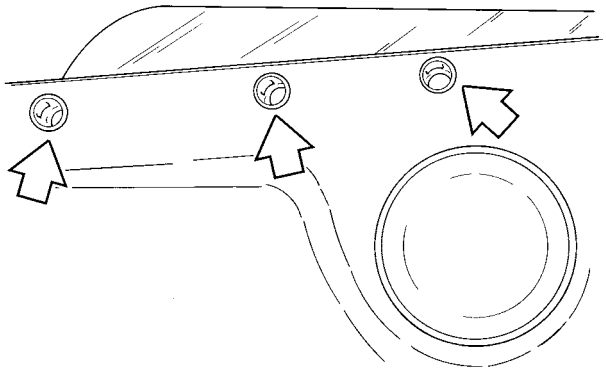
3



W8001380

Using a small, flat bladed screwdriver, carefully remove the six plugs in the door panel.

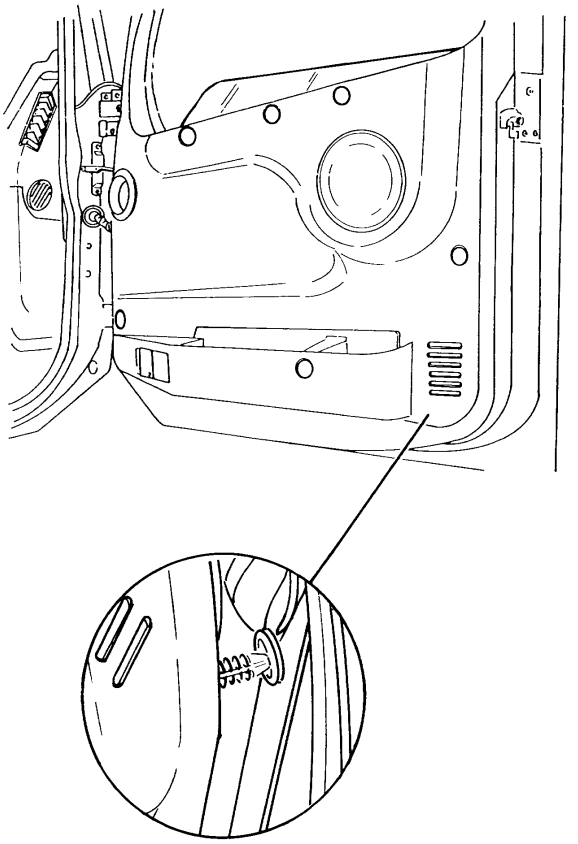
4



W8001381

Remove the three bolts and three screws holding the panel to the door. — 14 mm socket; Torx 25

5



W8001382

The door panel is now held in place by the “Christmas tree” fasteners. Carefully pry the door panel away from the door.

6
Disconnect the electrical connectors for the electrical equipment in the door panel. Remove the door panel. — Torx 25

Installation

1
Lift the panel into place on the door. Connect the electrical connectors.

2
Line up the panel so the holes in the door match the fasteners in the panel. Press the fasteners into the holes.

3
Install the three bolts and the three screws. Install the cover plugs into the panel. — 14 mm socket; Torx 25

4
If equipped, install the window regulator crank on the shaft. Tighten the screw. Install the crank cover by twisting it into place and pressing over the end of the crank. — Torx 25

5
Install the door lock handle. Install the screw and tighten it. Install the rubber plug in the hole in the handle. — Torx 10

6
Lift the panel into place on the door. Connect the electrical connectors.

7
Line up the panel so the holes in the door match the fasteners in the panel. Press the fasteners into the holes.

8
Install the three bolts and the three screws. Install the cover plugs into the panel. — 14 mm socket; Torx 25

9
If equipped, install the window regulator crank on the shaft. Tighten the screw. Install the crank cover by twisting it into place and pressing over the end of the crank. — Torx 25

10
Install the door lock handle. Install the screw and tighten it. Install the rubber plug in the hole in the handle. — Torx 10

8561-03-02-01
Bunk, Replacement (Upper)

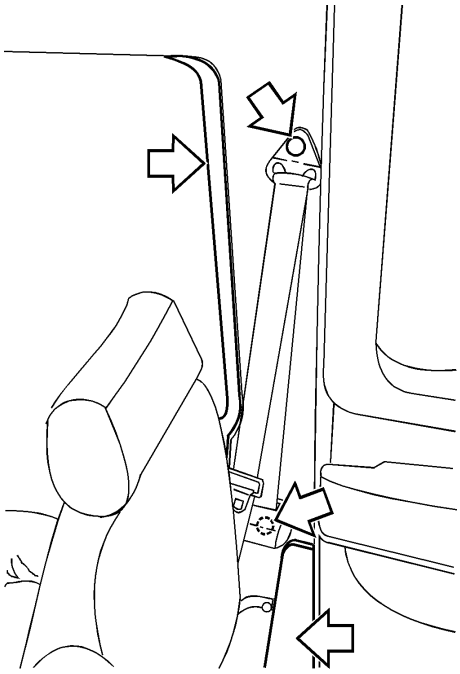
To remove the upper bunk the R/H side cabinets and two trim panels must first be removed. The following procedures are for the right side of the cab, the left side is similar.

Removal

B-Pillar Trim Panel and Seat Belt Assembly, Removal

1
Remove the right rear grab handle by removing the trim caps and bolts in the top and bottom of the grab handle.

2



W8002181

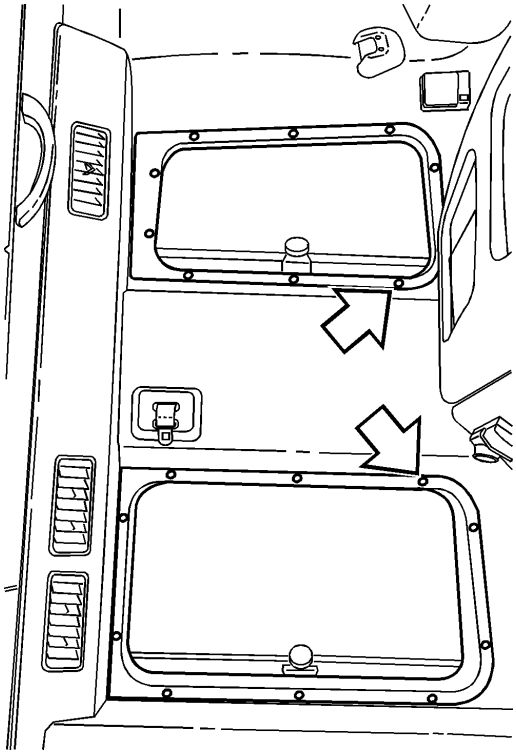
Remove the seat belt by removing the hex bolt, mounting the recoiler, and the torx bolt for the shoulder harness bracket. Pull the weather stripping away to release the trim edge.

3
Remove the four clips for the carpet, covering the support beam behind the passengers seat.

4
Remove the three clips fastening the trim panel to the tower cabinet, remove the trim panel.

Fascia Panel and Trim, Removal

1

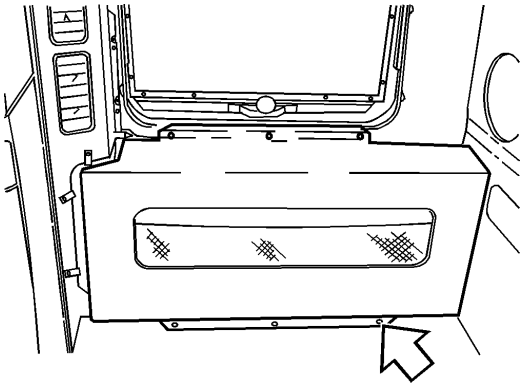


W8002176

Remove the 4 bunk window trim bezels. There are 10 screws to be removed for each windows trim bezel.

Phillips screwdriver

2

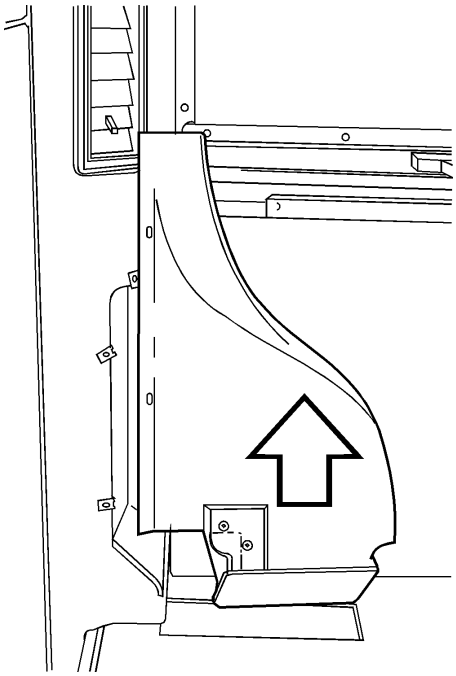


W8002177

Remove the torx screws holding the cabinet below the lower right bunk windows.

Torx 25

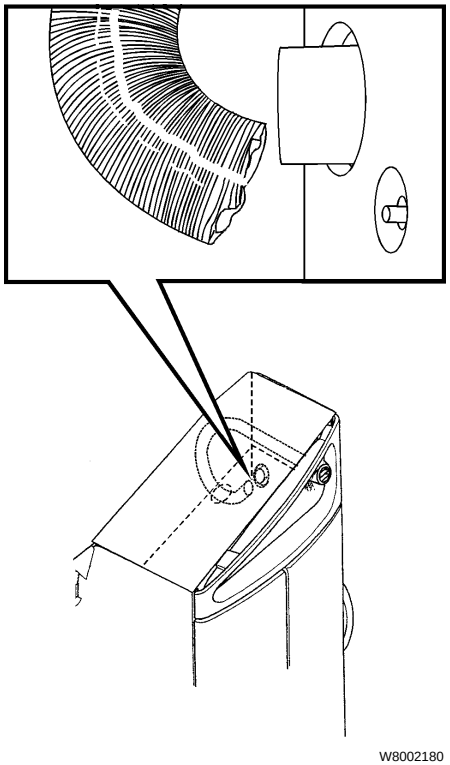
3



W8002178

Remove the 6 torx screws holding the ducting from the bunk HVAC unit to the right bunk fascia panel. Torx 25

4



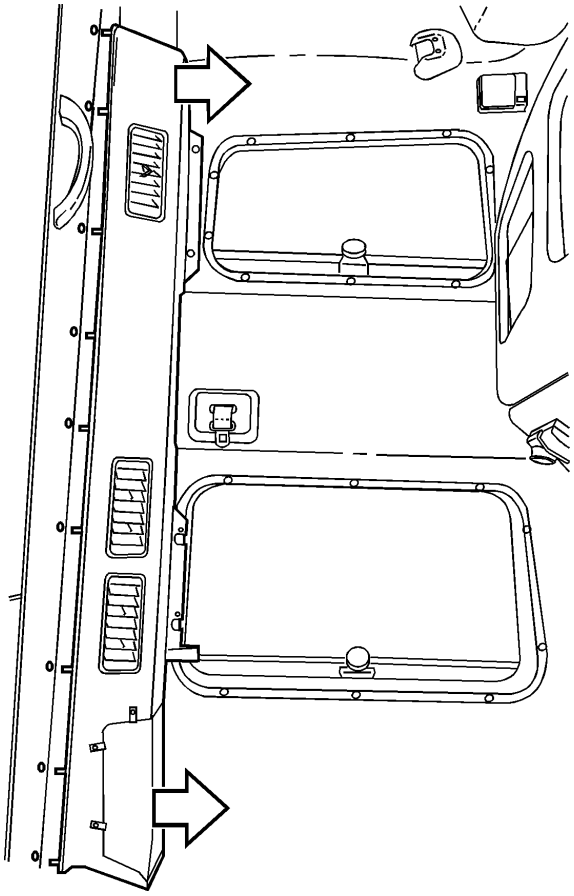
W8002180

Remove the duct hose in the upper right tower cabinet from the right bunk fascia panel. Torx 25

5

Pull back the lower right trim panel to expose the lower right bunk fascia panel mounting screws. This panel is secured with Christmas tree and/or interlock fasteners. J-38778

6

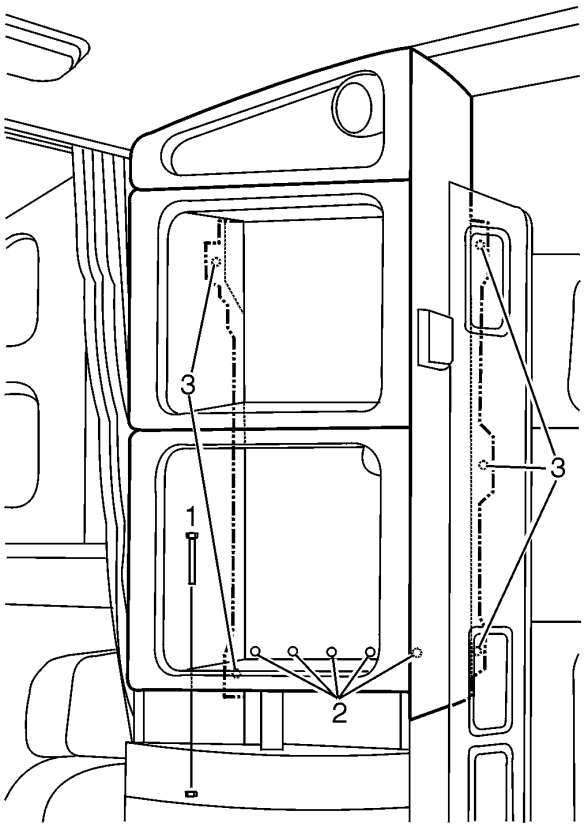


W8002179

Remove 5 torx screws, 3 along the top and 2 behind the trim panel, mounting the vent fascia to the wall.
Remove the eight nuts from the plastic studs.
Remove the fascia panel from its mounting location and remove it from the vehicle. Torx 25
Socket 11 mm

Tower Cabinets, Removal

1



W8002492

Remove the upper right tower cabinet as follows:
Remove any objects stored in the cabinet.
Unplug the power supply connectors.
Remove the 5 bolts from the rear bottom wall (2).
Remove the 6 bolts between the upper and lower cabinet (1).
Pull the upper front trim panel back to expose the upper front wall mounting bolt. Remove the bracket from the cabinet that holds the interlock fastener.
Pull back the B pillar trim to expose the lower front wall mounting bolt.
Remove the 5 wall mounting bolts (3).

Torx 40
Torx 30
Torx 20
Socket 11 mm
Socket 12 mm

2
Remove the power socket connectors and remove the mounting screw in the center of the 120 V outlet cover (if equipped). Remove the cover.

3
Remove the four torx bolts (4) holding the lower tower cabinet to the wall.

4
Remove the 4 nuts and washers (5) holding the lower tower cabinet to the floor. Remove the lower cabinet from the cab.

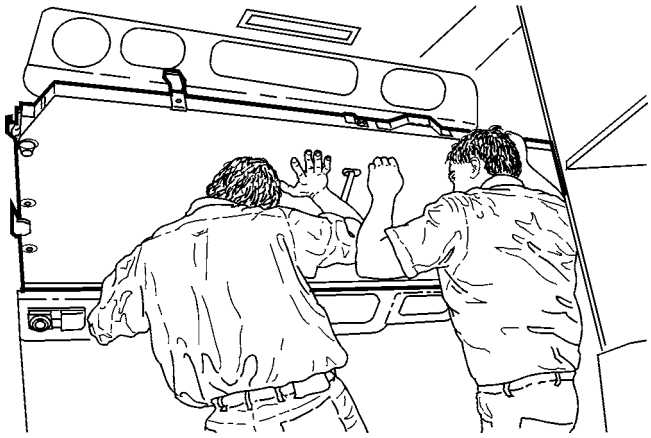
Upper Bunk, Removal

1
Remove the left side switch panel and housing.

2
With the bunk in the “up” position, remove the two screws mounting restraint bracket and rear wall bracket into bunk assembly.

3
Remove the two bunk mounting bolts from the mounting hinge brackets on rear wall.

4



W8002159

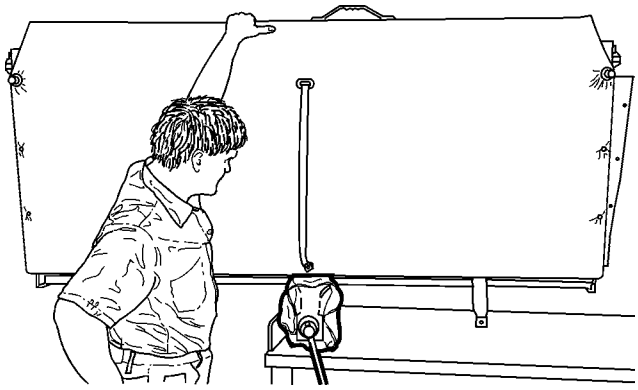
⚠ CAUTION

Use caution when removing the bunk assembly from the truck, to prevent the mounting hinge from being impacted and possibly coming “unlatched” from the flat position.

With the bunk in the lower position lift it to about 45° angle and pull it out.

Upper Bunk, Installation

1



W8002158

Make sure that the bunk is flat and the mounting hinge is latched. If not, put the bunk in a vise.
Pull the bunk down and latch it.

Note: Install rags on the vise to avoid damage to the paint.

2
Install the bunk assembly into the truck. Position the hinge to align with the mounting holes on the rear wall.

3

Install the two mounting bolts through the bunk restraint (seat belt) brackets and hinge into the mounting holes on the rear wall. Torque to 68 Nm (50 ft-lb).	68 Nm (50 ft-lb)

4

Lift up the bunk from the lower position to the upper position. Install the two screws through holes in the hinge valance storage area and into the bunk assembly. Torque the screws to 28 Nm (21 ft-lb).	28 Nm (21 ft-lb)

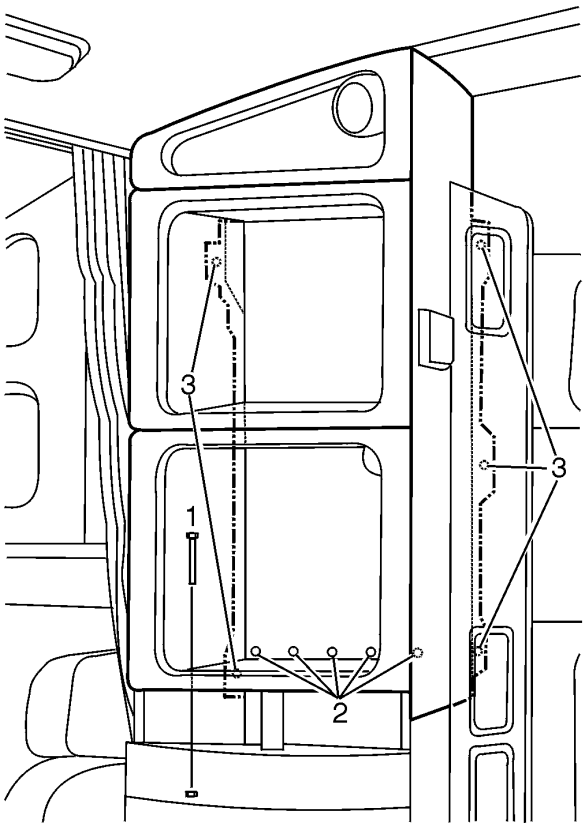
5
Continue with "Tower Cabinets, Installation" page 14.

Tower Cabinets, Installation

1
Position the upper right tower cabinet into its mounting location. Work the cabinet around trim panels and pull wiring through the cabinet as necessary.

Note: This step requires 2 people.

2

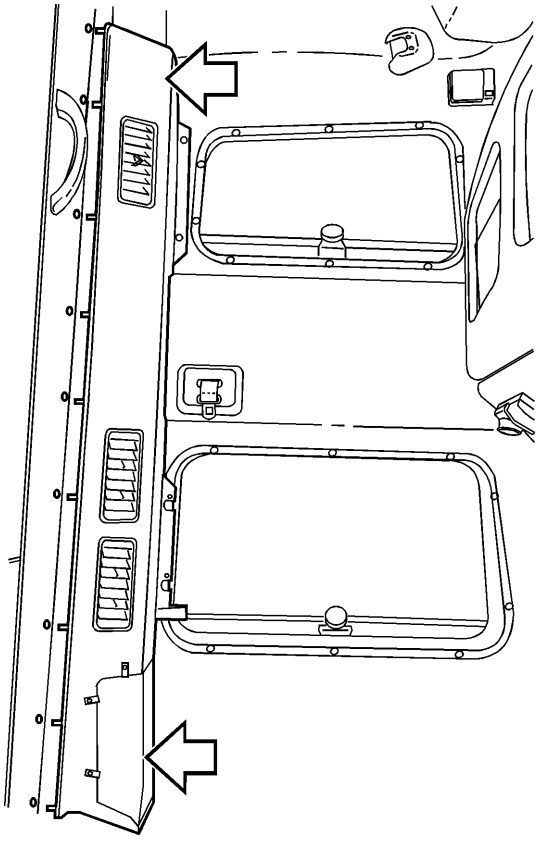


W8002492

Install the upper right tower cabinet as follows:	Torx 40
Start all cabinet mounting bolts before beginning tightening.	Torx 30
Install the 5 wall mounting bolts (3). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).	Torx 20
Install the 6 bolts between the upper and lower cabinet (1). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).	Socket 12 mm
Install the 5 bolts to the rear bottom wall (2). Torque to 10 ± 1.5 Nm (7 ± 1 ft-lb).	Socket 13 mm
Torque all cabinet mounting bolts.	Phillips screwdriver
Install the bracket that holds the interlock fasteners to the cabinet. Secure the upper front trim panel with the interlock fasteners.	Torque wrench
Connect the power supply connectors.	24 ± 4 Nm (18 ± 3 ft-lb)
	24 ± 4 Nm (18 ± 3 ft-lb)
	10 ± 1.5 Nm (7 ± 1 ft-lb)

Fascia Panel and Trim, Installation

1



W8002182

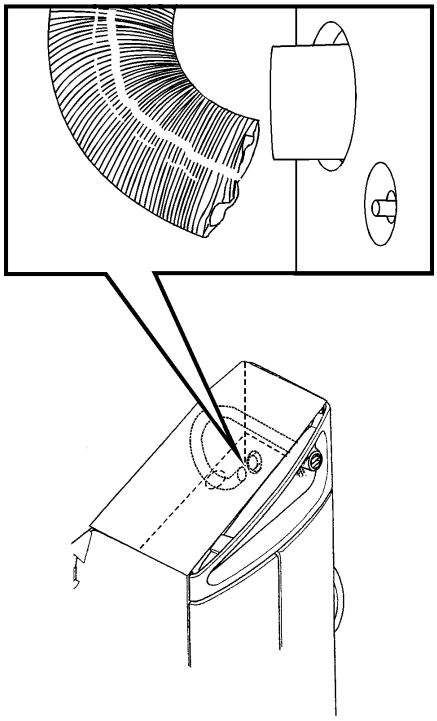
Position the right bunk fascia panel into its mounting location. Secure the panel to the tower cabinets with the plastic stud nuts. Secure the panel to the wall with screws. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Socket 11 mm
Torque wrench
3 ± 0.5 Nm
(27 ± 4 in-lb)

2

Secure the lower right trim with Christmas tree and/or interlock fasteners.

3

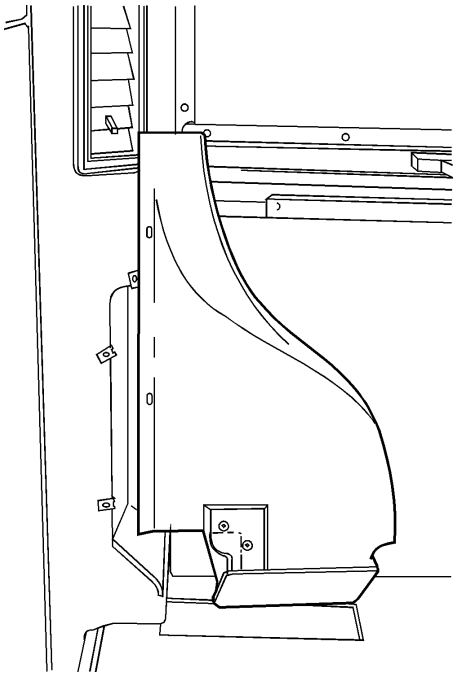


W8002180

Secure the duct hose in the upper right tower cabinet to the right bunk fascia panel.

Torx 25

4

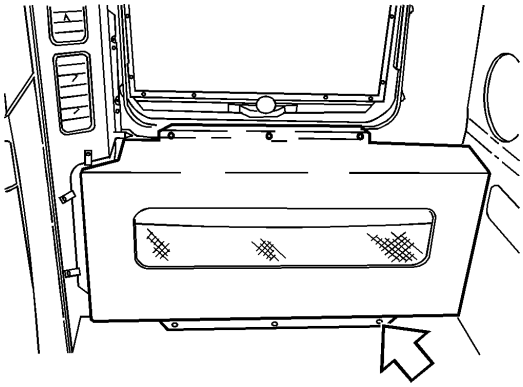


W8002183

Install the duct from the bunk HVAC unit to the right bunk fascia panel. Torque the screws to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Torque wrench
3 ± 0.5 Nm
(27 ± 4 in-lb)

5

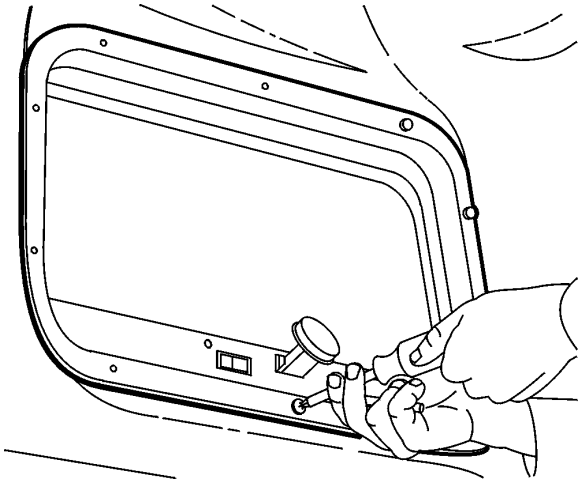


W8002177

Install the cabinet below the lower right bunk window. Torque the 3 bottom screws to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Torque wrench
3 ± 0.5 Nm (27 ± 4 in-lb)

6



W8002458

Install the 4 bunk window trim bezels. Torque the screws to 3 ± 0.5 Nm (27 ± 4 in-lb).

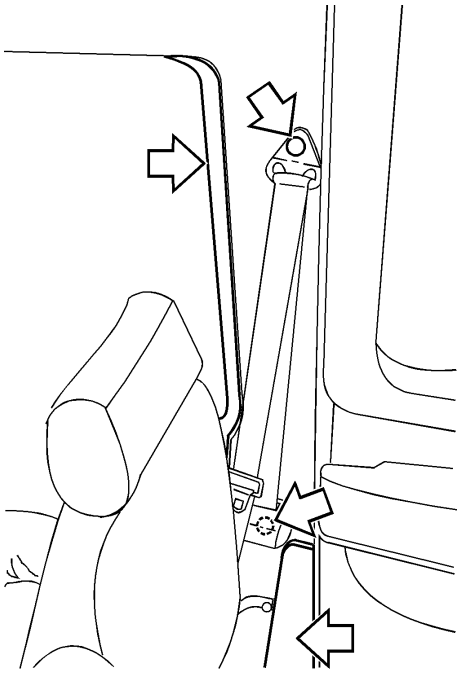
Phillips screwdriver
Torque wrench
3 ± 0.5 Nm (27 ± 4 in-lb)

B-Pillar Trim Panel and Seat Belt Assembly, Installation

1
Install the B-pillar trim panel. Install the three retaining clips that hold the panel to the tower cabinet. Install the trim panel around the support beam and fit at the top behind the curtain rail and behind the mat trim at the floor.

2
Install the plastic trim retainer edge with the door sealant.

3



W8002181

Install the seat belt shoulder harness bracket and recoiler. Start the bolts in both, then torque bolts to:
50 ± 10 Nm (37 ± 7 ft-lb) (Volvo seat)
68 ± 7 Nm (50 ± 5 ft-lb) (National seat).
Install the recoiler cover and the bolt cover on the shoulder harness bracket.

50 ± 10 Nm (37 ± 7 ft-lb)
68 ± 7 Nm (50 ± 5 ft-lb)

4
Install the support beam trim cover behind the right seat. Install the four retaining clips holding the trim cover.

5
Install the right rear grab handle. Install the two mounting bolts and trim caps. Torque bolts to 24 ± 4 Nm (18 ± 5 ft-lb).

24 ± 4 Nm (18 ± 5 ft-lb)

8554-03-02-01 Headliner, Replacement

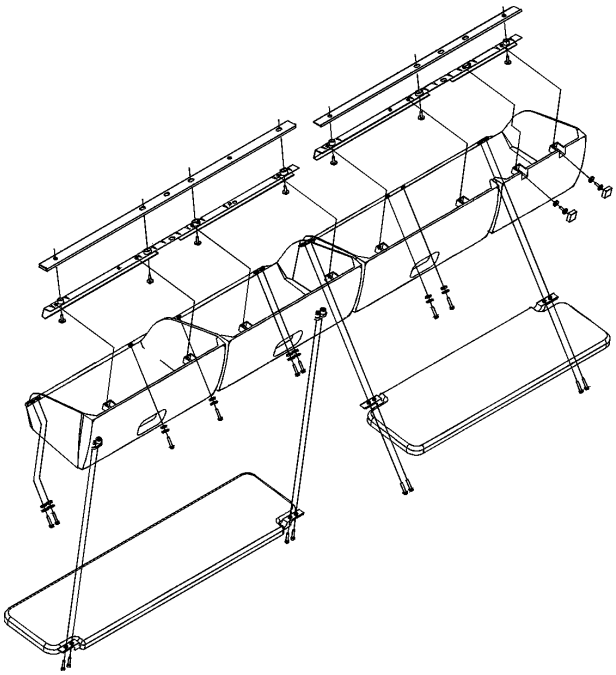
DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

Day Cab

Removal

1



Remove the front left overhead storage cabinet together with the sun visor. — Torx 25, Socket 8 mm

Note: On vehicles that are not equipped with an overhead storage cabinet, remove only the sun visor.

2

Remove the right sun visor. — Socket 8 mm

3

If equipped, remove the front left storage cabinet carrier rail. — Torx 40

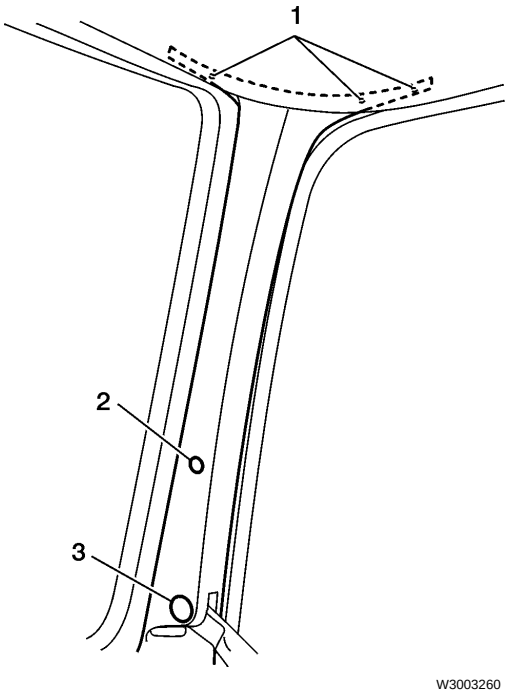
4

Remove the coat hooks from the rear of the headliner. — Torx 25

5

If equipped, remove the rear speakers from the headliner. — Torx 25

6



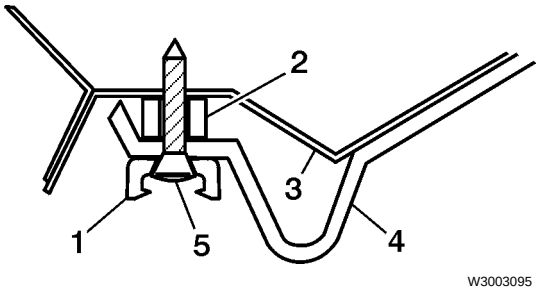
W3003260

1 Plastic rivets (day cab vehicles only)
2 Molding clip
3 Grab handle bolt cover

Remove the upper grab handle bolt cover from the A-pillar trim. Remove the bolt and pull the handle out of the cover. — Socket 12 mm

Pull the door seal away from the A-pillar trim and the top of the door. Remove the molding clip by pressing in the center button. Remove the plastic rivets at the top of the A-pillar trim. Remove the A-pillar trim. Repeat on opposite side.

7



W3003095

1 Curtain rail or trim washer
2 Plastic spacer
3 Cab metal
4 Headliner
5 Screw

Remove the screws securing the front and sides of the headliner. Torx 15

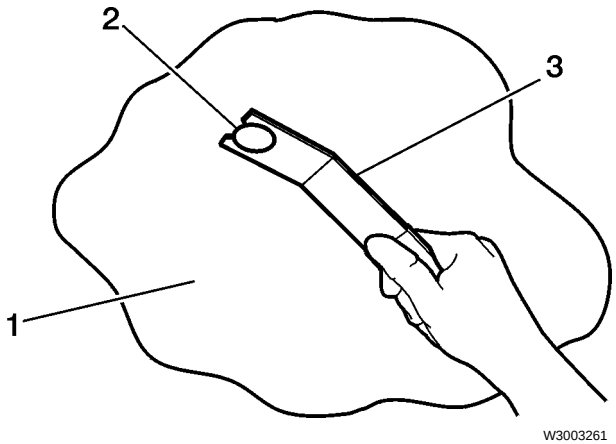
Note: The screws are equipped with plastic spacers between the headliner and the cab sheet metal. Use caution not to lose them during headliner removal.

8

Release the 2 retaining clips in the center of the headliner by pressing in the center button. Remove the retaining clips.

Note: May not apply, depending on interior trim level.

9



W3003261

1 Headliner
2 Christmas tree fastener
3 Removal tool J38778

Remove the 2 Christmas tree fasteners in the center of the headliner with the removal tool. Use caution not to damage the headliner material. J-38778

Note: May not apply, depending on the interior trim level.

10

The headliner is now held in place by a few interlocking fasteners and the rear wall B-pillar trim. Pull the door seal away from the top of the B-pillars. Pull the B-pillars trim away at the top to allow removal of the headliner. Pull the front of the headliner down and lift up on the rear to free the rear headliner lip. Disconnect the lamp assembles and remove the headliner from the vehicle.

Note: This step requires 2 people. Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

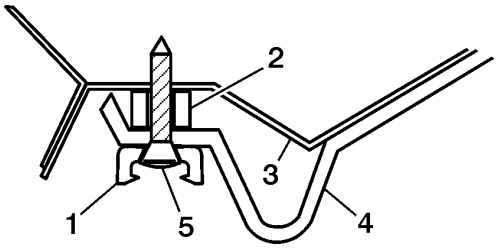
Installation

1

Install the headliner in the vehicle. Connect the lamp assembles. Note the position of the interlocking fasteners. Start with the front of the headliner down and lift up on the rear to engage the rear headliner lip behind the rear wall trim. At the same time work the side edges behind the B-pillar trim.

Note: Two people are required for this step.

2



W3003095

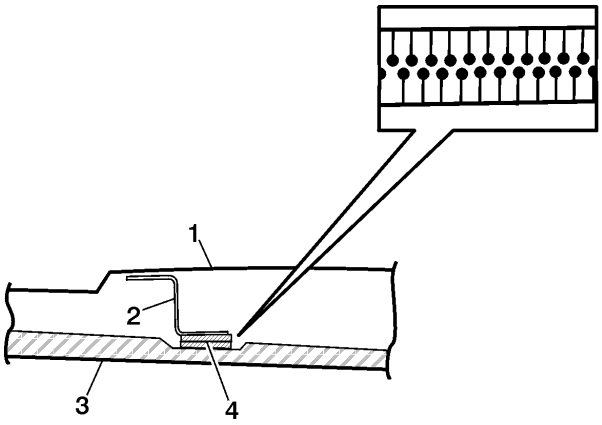
1 Curtain rail or trim washer
2 Plastic spacer
3 Cab metal
4 Headliner
5 Screw

With one person holding the headliner, allow the front of the headliner down enough to install the mounting screws. The mounting screws and the trim should be installed up through the headliner and a spacer installed between each screw and the cab mounting holes. A thin plastic ”lip” on the spacer will hold it in mounting position. After all screws and spacers are in place, carefully lift the headliner up to the roof.

Torx 15

Note: Two people are required for this step.

3



W3003110

1 Roof plate
2 Roof panel
3 Headlining
4 Fully engage fasteners – pressing firmly

Install the 2 Christmas tree fasteners in the center of the headliner. Install the 2 remaining clips in the center of the headliner. Press in the center button to secure. Engage the securing interlocking fasteners.

Note: Two people are required for this step.

4 Install the screws securing the front and sides of the headliner. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	Torx 15 3 ± 0.5 Nm (27 ± 4 in-lb)
5 Install the B-pillar trim.	
6 Install the A-pillar trim. Install the molding, press in the center bottom to secure. If equipped, install the plastic rivet fasteners.	
7 Install the door seals.	
8 Install the grab handles. Torque to 24 ± 4 Nm (18 ± 3 ft-lb). Replace the bolt cover trim.	Socket 12 mm 24 ± 4 Nm (18 ± 3 ft-lb)
9 If equipped, install the rear speakers in the headliner.	Torx 25
10 Install the coat hooks to the rear of the headliner. Torque to 3 ± 0.5 Nm (25 ± 5 in-lb).	Torx 25 3 ± 0.5 Nm (25 ± 5 in-lb)
11 Install the front overhead storage cabinet carrier rail. Torque to 24 ± 4 Nm (18 ± 3 ft-lb).	24 ± 4 Nm (18 ± 3 ft-lb)
12 Install the right sun visor. Torque to 5 ± 0.8 Nm (45 ± 7 in-lb).	Socket 8 mm 5 ± 0.8 Nm (45 ± 7 in-lb)
13 Install the front overhead storage cabinet together with the sun visor. Torque to 5 ± 0.8 Nm (45 ± 7 in-lb). **Note:** Install only the sun visor if the vehicle is not equipped with a front overhead storage cabinet.	Torx 25 Socket 8 mm 5 ± 0.8 Nm (45 ± 7 in-lb)

8554-03-02-02
Headliner, Replacement (Front)

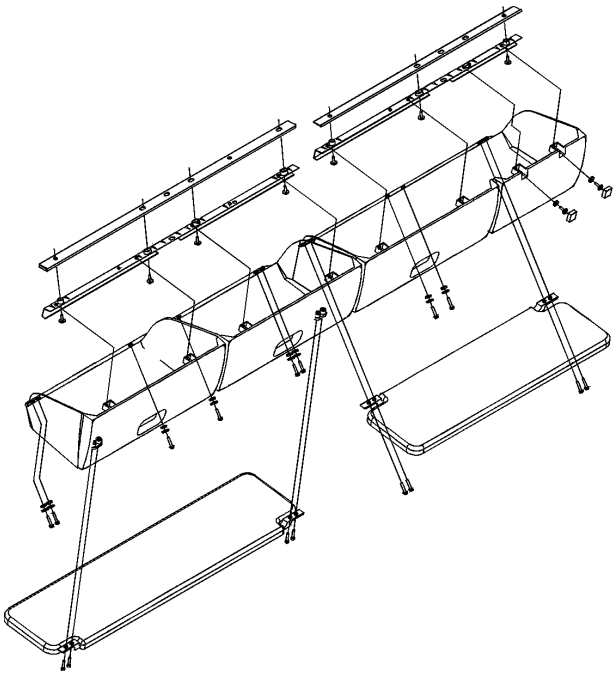
DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

VN420

Removal

1



Remove the front left overhead storage cabinet together with the sun visor. — Torx 25, Socket 8 mm

2

Remove the right sun visor. — Socket 8 mm

3

If equipped remove the front right overhead storage cabinet. — Torx 25, Socket 8 mm

Note: Two screw covers, on the far right facing panel, must be removed to gain access to the mounting screws.

4

Remove the front overhead storage cabinet carrier rail. — Torx 40

5

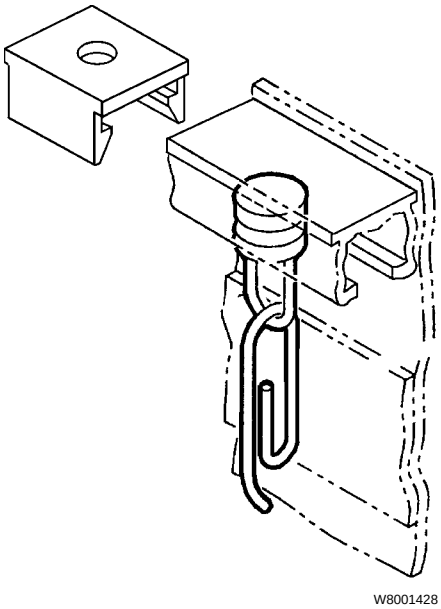
Remove the driver side window visor assembly. Pry off end screw covers. Remove mounting screws. — Socket 8 mm

6

Remove the sleeper curtain rail assembly. — Torx 25

Note: The curtains do not need to be removed from the rail.

7

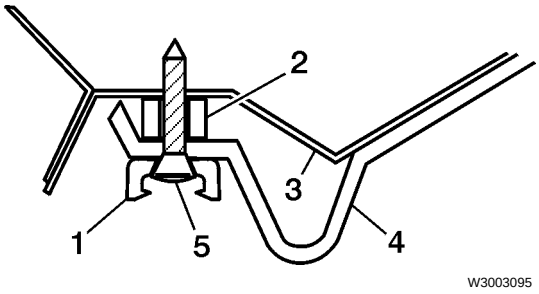


W8001428

Remove the front curtain rail assembly. Use a wide blade screwdriver to carefully pry the rail out of one side then the other side on each retaining clip. After all retaining clips are released, remove the front curtain rail assembly from the vehicle. — Slotted screwdriver

Note: Use caution not to deform the rail assembly.

8



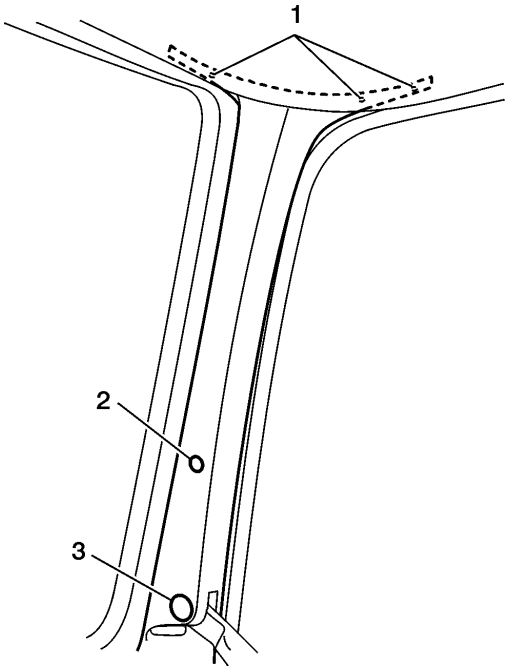
W3003095

1 Curtain rail or trim washer
2 Plastic spacer
3 Cab metal
4 Headliner
5 Screw

Remove the screws securing the front and sides of the headliner. Torx 15

Note: The screws are equipped with plastic spacers between the headliner and the cab sheet metal. Use caution not to lose them during headliner removal.

9



W3003260

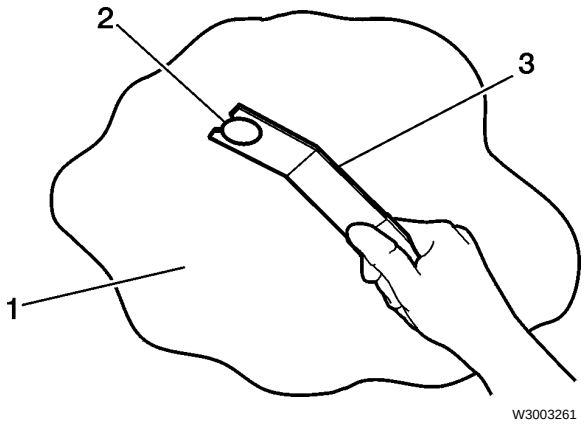
1 Plastic rivets (day cab vehicles only)
2 Molding clip
3 Grab handle bolt cover

Remove the upper grab handle bolt cover from the A-pillar trim. Remove the bolt and pull the upper grab handle out of the cover. Repeat on the other side.
Pull the door seal away from the A-pillar trim and the top of the door. Remove the molding clip by pressing in the center button. Remove the A-pillar trim. Repeat on opposite side.

10
Release the 2 retaining clips in the center of the headliner by pressing in the center button. Remove the retaining clips.

Note: May not apply, depending on the interior trim level.

11



1 Headliner
2 Christmas tree fastener
3 Removal tool J38778

Remove the 2 Christmas tree fasteners in the center of the headliner with the removal tool. Use caution not to damage the headliner material. J-38778

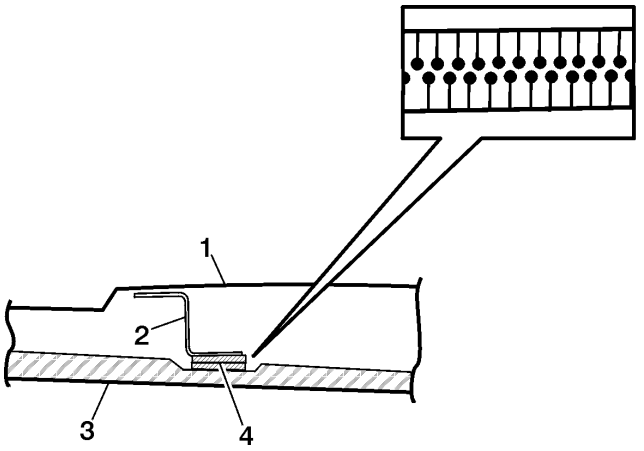
Note: May not apply, depending on the interior trim level.

12
Remove all the screws that holds the headliner. After all screws have been removed and the headliner drops, disconnect the lamp assembles and remove the headliner from the vehicle. Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

Note: In older vehicles (built 1998 and before) the headliner may also be fastened with interlocking fasteners.

Installation

1



1 Roof plate
2 Roof panel
3 Headlining
4 Fully engage fasteners – pressing firmly

Note the location of all interlocking fasteners on the headliner to aid in installation. Position the headliner in the cab below its mounting location. Connect the lamp assembly connectors.

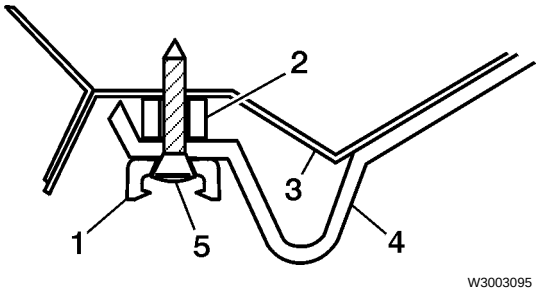
Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

2
Lift the headliner assembly into position. Temporarily secure with a few interlocking fasteners.

3
If equipped, install the 2 retaining clips in the center of the headliner. Secure by pressing in the center button.

4
If equipped, install the 2 Christmas tree fasteners in the center of the headliner.

5



W3003095

1 Curtain rail or trim washer
2 Plastic spacer
3 Cab metal
4 Headliner
5 Screw

Line up the mounting screws for the front curtain rail assembly. Add the nylon spacers between headliner and cab screw holes. Install all screws and retaining clips. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 15
3 ± 0.5 Nm
(27 ± 4 in-lb)

6

Install all remaining screw to the headliner.

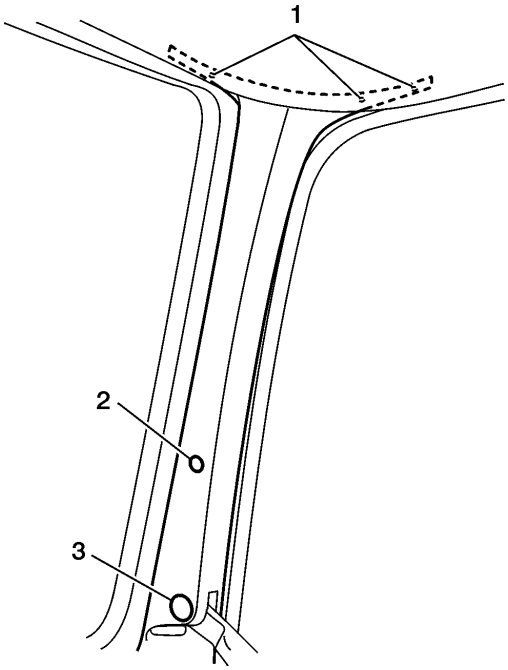
Note: In older vehicles (built 1998 and before) the headliner may also be fastened with interlocking fasteners.

7

Install the front overhead storage cabinet carrier rail. Torque to 24 ± 4 Nm (18 ± 3 ft-lb).

Torx 40
24 ± 4 Nm
(18 ± 3 ft-lb)

8



W3003260

1 Plastic rivets (day cab vehicles only)
2 Molding clip
3 Grab handle bolt cover

Install the A-pillar trims. Secure with the molding clips.

9

Install the grab handles. Torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Replace the bolt cover trim.

Socket 12 mm
24 ± 4 Nm
(18 ± 3 ft-lb)

10

Install the door seals.

11

Install the front curtain rail assembly. Position the rail and snap into the retaining clips.

Note: Use caution not to deform the rail assembly.

12

Install the sleeper curtain rail assembly. Torque to 3 ± 0.5 Nm (25 ± 5 in-lb).

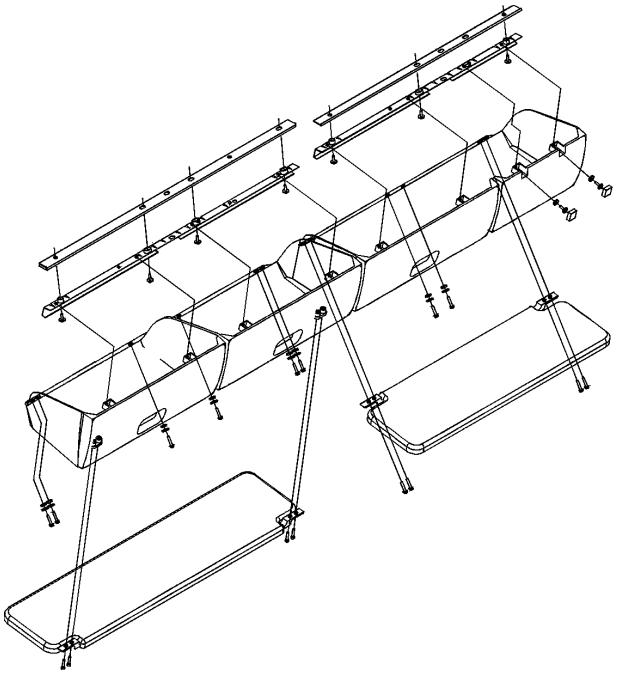
Torx 25
3 ± 0.5 Nm
(25 ± 5 in-lb)

13

Install the driver side window visor assembly.
Torque the screws to 5 ± 0.8 Nm (45 ± 7 in-lb) and replace the screw covers.

Socket 8 mm
5 ± 0.8 Nm
(45 ± 7 in-lb)

14



Install the front right overhead storage cabinet (if equipped) as follows: Install the 4 mounting screws, with their rubber washer, to the carrier rail. Torque to 2 ± 0.3 Nm (17 ± 3 in-lb). Install the 2 screws over the windshield. Torque to 3 ± 0.5 Nm (25 ± 5 in-lb). Install the mounting screw covers.	Torx 25 Socket 8 mm 2 ± 0.3 Nm (17 ± 3 in-lb) 3 ± 0.5 Nm (25 ± 5 in-lb)

15

Install the right sun visor. Torque to 5 ± 0.8 Nm (45 ± 7 in-lb).	Socket 8 mm 5 ± 0.8 Nm (45 ± 7 in-lb)

16

Install the front left overhead storage cabinet together with the sun visor. Install the 4 mounting screws, with their rubber washer, to the carrier rail. Torque to 2 ± 0.3 Nm (17 ± 3 in-lb). Install the 6 screws, with their rubber washer, over the windshield. Torque to 3 ± 0.5 Nm (25 ± 5 in-lb).	Torx 25 Socket 8 mm 2 ± 0.3 Nm (17 ± 3 in-lb) 3 ± 0.5 Nm (25 ± 5 in-lb)

8554-03-02-03
Headliner, Replacement (Bunk)

DANGER

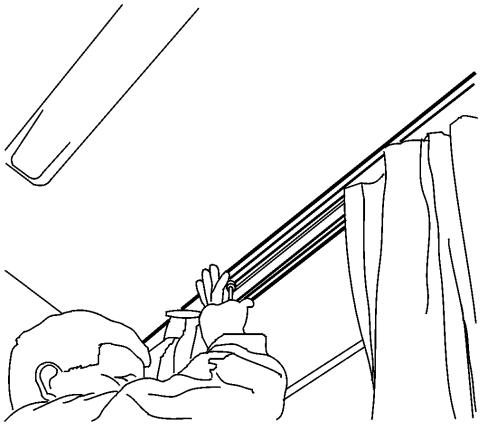
Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

VN420

Removal

1
Remove the mattress from the vehicle.

2

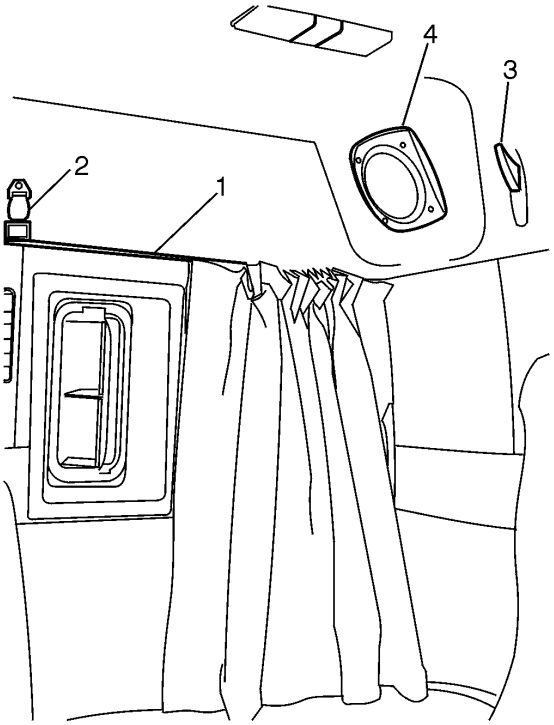


W8002490

Remove the bunk curtain rail assembly. — Torx 25

Note: The curtains don't need to be removed from the rail.

3



W8002519

Remove the front curtain rail assembly (1). Use a wide blade screwdriver to carefully pry the rail out of one side then the other side on each retaining clip.
Remove the rail assembly from the vehicle. — Slotted screwdriver

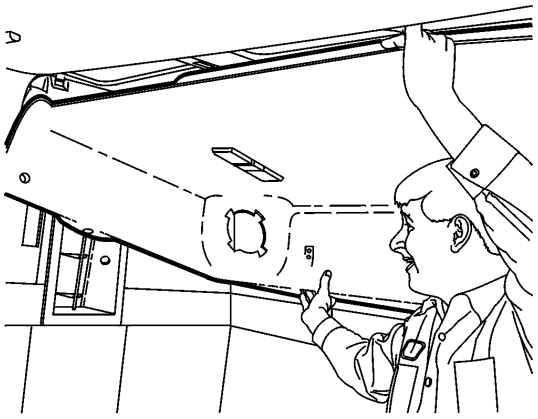
Note: Use caution not to deform the rail assembly.

4
Remove the 2 bunk restraint tether brackets and spacer (2). — Torx 40

5
Remove the 2 coat hooks from the rear wall (3). — Torx 25

6
Remove the 2 speakers (4). — Torx 25

7



The headliner is now held in place by screws and the bunk trim.
Remove all screws that holds the headliner.
Note: In older vehicles (built 1998 and before) the headliner may also be fastened with interlocking fasteners.

Carefully work the back of the headliner out from behind the bunk wall trim, then allow the rear of the headliner to drop enough to slide the front out from under the front headliner.
Disconnect the lamp connectors and remove the headliner from the vehicle.

Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

8

Remove the lamp assemblies for installation in the replacement headliner. Torx 20

Installation

1

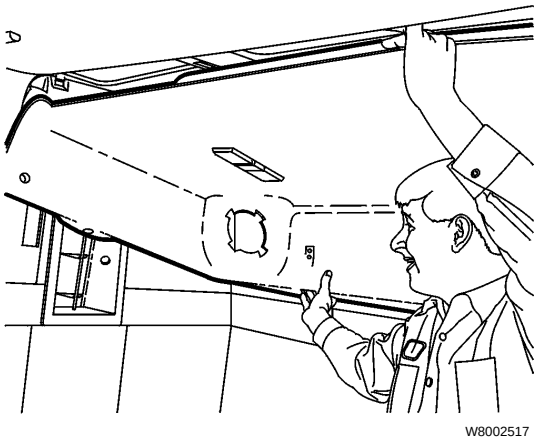
Install the lamp assemblies in the replacement headliner. Torx 20

2

Position the headliner in the cab below its mounting location. Connect the lamp assembly connectors.

Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.
2 people are required for this step.

3

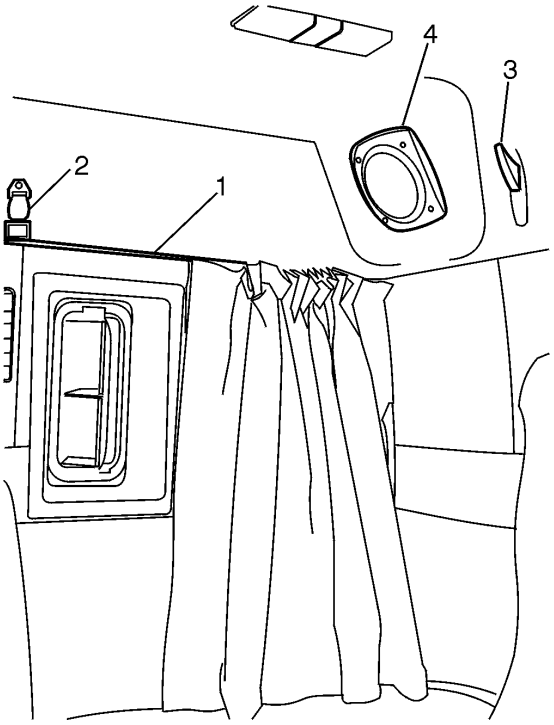


Lift the headliner assembly into position by sliding the front of the bunk headliner under the rear of the front headliner.
Work the rear of the bunk headliner behind the bunk wall trim panels.
Install all screws.

Note: 2 people required for this step.

Note: In older trucks (built 1998 and before) the headliner may also be fastened with interlocking fasteners.

4



W8002519

Install the rear speakers in the headliner as follows (4): Connect the connector. Install and torque the 4 screws to 3 ± 0.5 Nm (27 ± 4.5 in-lb). Install the cover.	Torx 25 Torque wrench 3 ± 0.5 Nm (27 ± 4.5 in-lb)

5

Install the 2 coat hooks (3). Torque to 3 ± 0.5 Nm (27 ± 4.5 in-lb).	Torx 25 Torque wrench 3 ± 0.5 Nm (27 ± 4.5 in-lb)

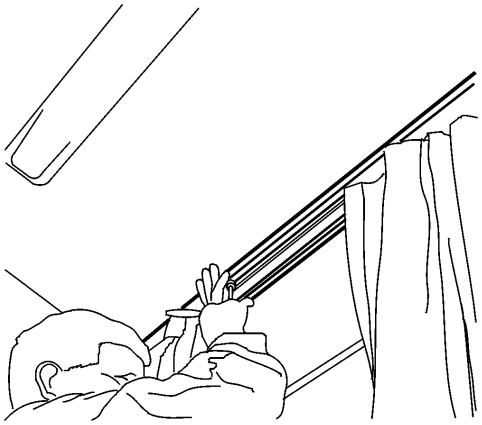
6

Install the 2 bunk restraint tether brackets and spacer (2). Torque to 18 ± 3 Nm (13 ± 2 in-lb).	Torx 40 Torque wrench 18 ± 3 Nm (13 ± 2 in-lb)

7

Install the front curtain rail assembly (1). Use caution not to deform the rail assembly.
Position the rail and snap it into the retaining clips.

8



W8002490

Install the bunk curtain rail assembly. Torque to 3 ± 0.5 Nm (27 ± 4.5 in-lb).	Torx 25 Torque wrench 3 ± 0.5 Nm (27 ± 4.5 in-lb)

9

Install the mattress into the vehicle

8554-03-02-02
Headliner, Replacement (Front)

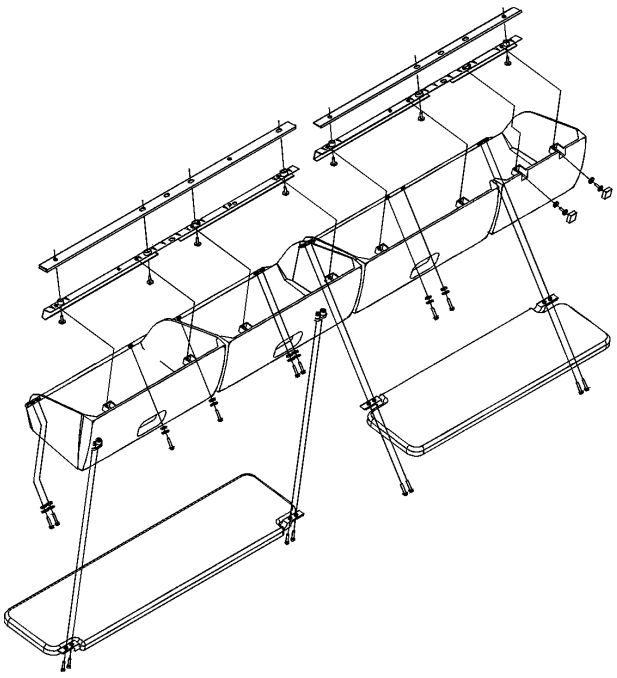
DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

VN610

Removal

1



Front overhead storage cabinets

Remove the front left overhead storage cabinet together with the sun visor. — Torx 25, Socket 8 mm

2

Remove the right sun visor. — Socket 8 mm

3

If equipped, remove the front right overhead storage cabinet. — Torx 25, Socket 8 mm

Note: Two screw covers, on the far right facing panel, must be removed to gain access to the mounting screws.

4

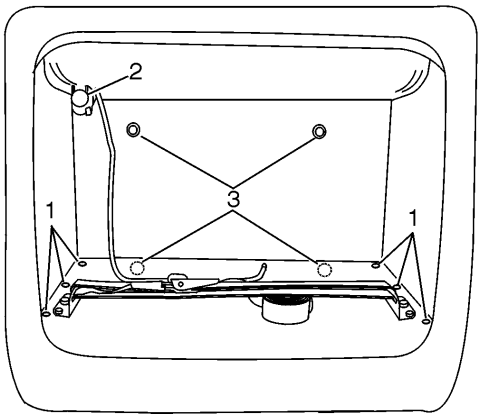
Remove the cabinet carrier rail assembling screws. — Torx 40

5

Remove driver side window visor assembly: — Socket 8 mm

Pry off the end screw covers. Remove the mounting screws.

6



W8002514

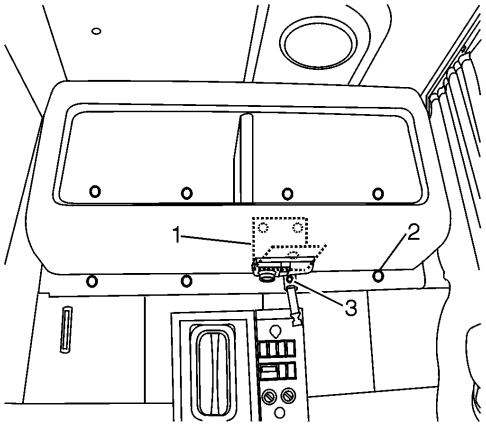
Remove the upper right cabinet as follows: — Torx 40, Torx 30

Remove the TV support plate by removing the 6 screws (1).
Unplug the interior light and power supply connector (2).
Remove the 4 wall mounting bolts (3).
Remove the cabinet from the vehicle.

Note: Position of long and short overbunk cabinets may vary between RH and LH side locations.

Note: TV support plate may be omitted in some short overbunk cabinets.

7

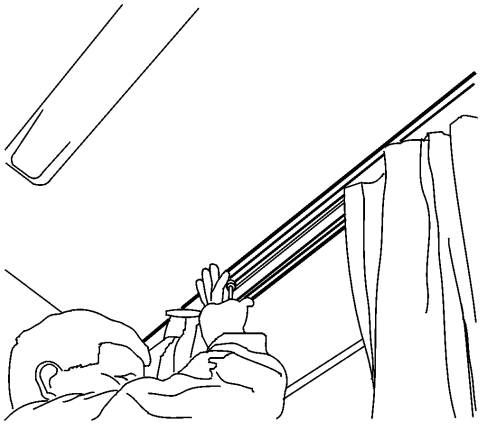


W8002513

Remove the left overbunk cabinet as follows: — Torx 40, Torx 25
Remove the interior light connector cover plate (1) with its 3 screws and unplug the light connector.
Remove the mounting screw covers and remove the 8 wall mounting bolts (2), including the one to the lower bunk tether (3).

Note: In vehicles with an upper bunk the long overbunk cabinet is replaced by a short cabinet.

8



W8002490

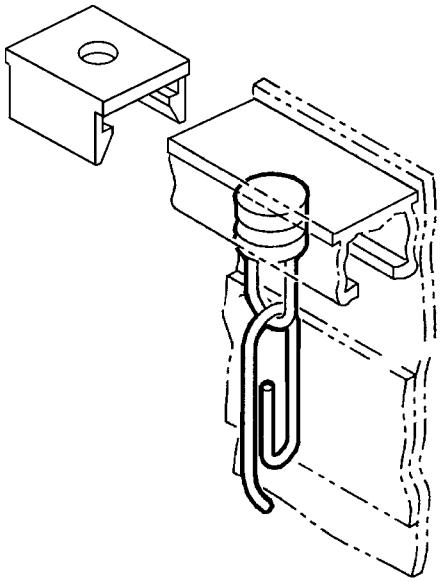
Remove the sleeper curtain rail assembly. — Torx 25

Note: The curtains do not need to be removed from the rail.

9
Remove the bezels for the front overhead roof storage pockets.

Note: Use caution not to break the bezel mounting post.

10

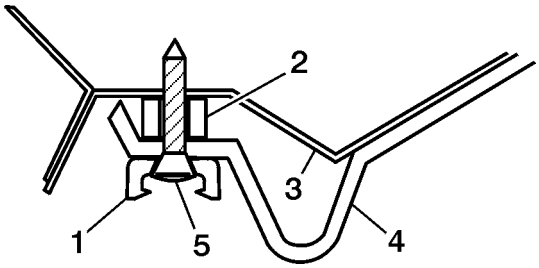


W8001428

Remove the front curtain rail assembly. Use a wide blade screw driver to carefully pry the rail out of one side then the other side on each retaining clip. After all retaining clips are released, remove the front curtain rail assembly from the vehicle. — Slotted screwdriver

Note: Use caution not to deform the rail assembly.

11



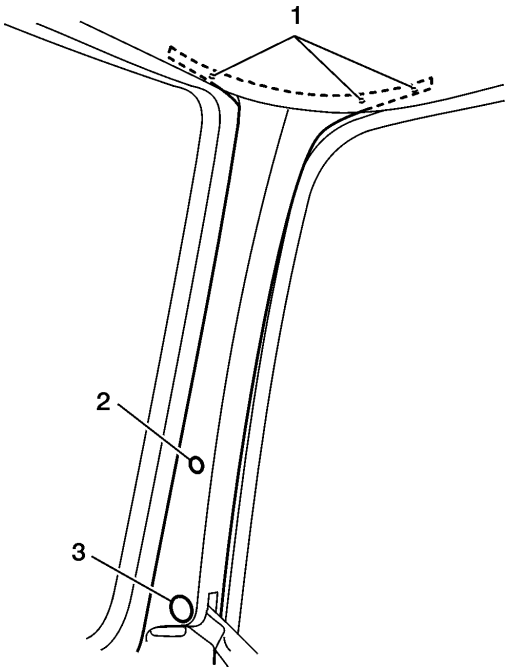
W3003095

1 Curtain rail or trim washer
2 Plastic spacer
3 Cab metal
4 Headliner
5 Screw

Remove the screws securing the front and sides of the headliner. — Torx 15

Note: The screws are equipped with plastic spacers between the headliner and the cab sheet metal. Use caution not to lose them during headliner removal.

12



1 Plastic rivets (day cab vehicle only)
2 Molding clip
3 Grab handle bolt cover

Remove the upper grab handle bolt cover from the A-pillar trim. Remove the bolt and pull the upper grab handle out of the cover. Repeat on the other side.
Pull the door seal away from the A-pillar trim and the top of the door. Remove the molding clip by pressing in the center button. Remove the A-pillar trim. Repeat on opposite side.

Socket 12 mm

13
Remove all the screws that holds the headliner. After all screws have been removed and the headliner drops, disconnect the lamp assembles and remove the headliner from the vehicle. Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

Note: In older vehicles (built 1998 and before) the headliner may also be fastened with interlocking fasteners.

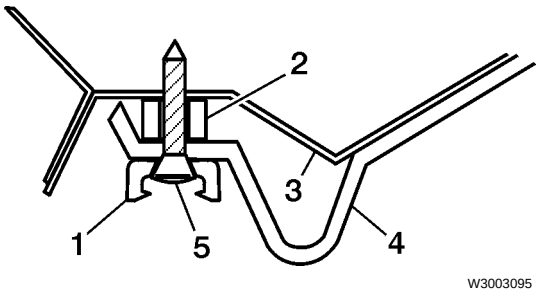
Installation

1
Position the headliner in the cab below its mounting location. Connect the overhead light connectors.
In older vehicles only: Note the location of all interlocking fasteners on the headliner to aid in installation.

Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

2
Lift the headliner assembly into position. Use the front overhead roof storage pockets as a guide to assist in proper positioning.

3



1 Curtain rail or trim washer
2 Plastic spacer
3 Cab metal
4 Headliner
5 Screw

Install the mounting screws for the front curtain rail assembly.
Add the nylon spacers between headliner and cab screw holes. Install all screws and retaining clips. Torque to 3 ± 0.5 Nm (25 ± 5 in-lb).

Torx 15
3 ± 0.5 Nm
(25 ± 5 in-lb)

4
Install all remaining screw to the headliner.

Note: In older vehicles (built 1998 and before) the headliner may also be fastened with interlocking fasteners.

5
Install the front overhead storage cabinet assembly carrier rails. Torque to 24 ± 4 Nm (18 ± 3 ft-lb).

Torx 40
24 ± 4 Nm
(18 ± 3 ft-lb)

6
Install the A-pillar trim, secure with the molding clip. Repeat on opposite side.

7

Install the grab handles. Tighten the bolts to a torque of 24 ± 4 Nm (18 ± 3 ft-lb). Install the cover plugs.	Socket 12 mm 24 ± 4 Nm (18 ± 3 ft-lb)

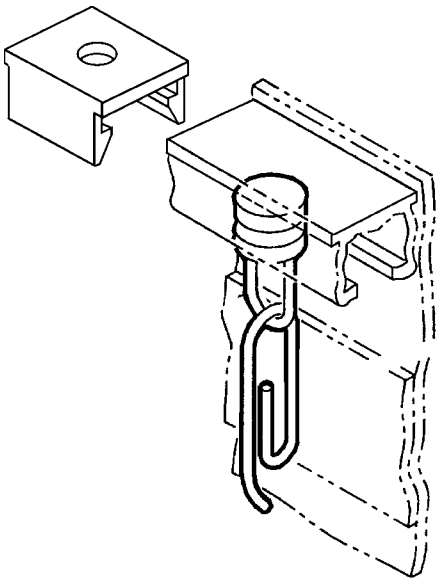
8

Install the door seals.

9

Install the bezel for the front overhead roof storage pockets with the “star” fasteners.

10



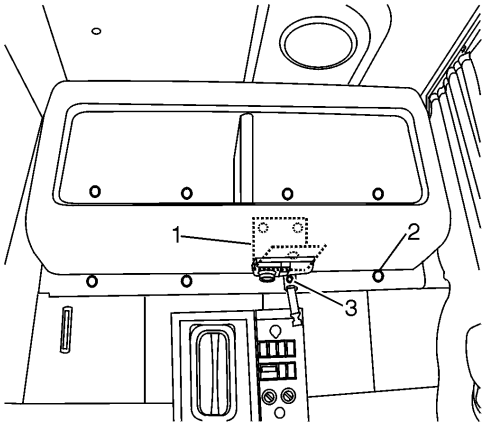
W8001428

Install the front curtain rail assembly. Use caution not to deform the rail assembly. Position rail and snap into retaining clips.

11

Install the sleeper curtain rail assembly. Torque to 5 ± 1 Nm (45 ± 7 in-lb).	Torx 25 5 ± 1 Nm (45 ± 7 in-lb)

12

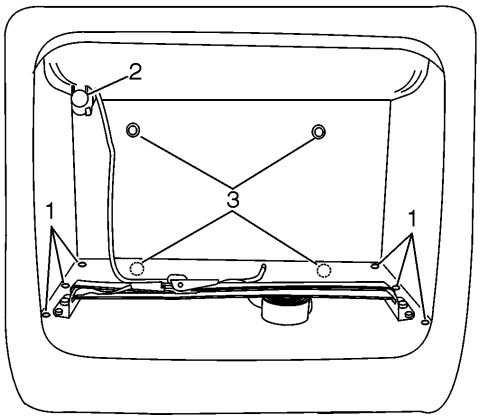


W8002513

Install the long overbunk cabinet as follows: Insert the interior light wiring through the cabinet access hole. Position the cabinet and install the mounting bolts (2). Torque to 24 ± 4 Nm (18 ± 3 ft-lb). Install the left lower bunk restraint tether bracket with spacer (3). Torque to 24 ± 4 Nm (18 ± 3 ft-lb). Install the lower bolt trim covers. Connect the light connector and install the light connector cover (1). Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	Torx 40 Torx 25 Torque wrench 24 ± 4 Nm (18 ± 3 ft-lb) 24 ± 4 Nm (18 ± 3 ft-lb) 3 ± 0.5 Nm (27 ± 4 in-lb)

Note: In vehicles with an upper bunk the long overbunk cabinet is replaced by a short cabinet.

13



W8002514

Install the upper right cabinet as follows:	Torx 40 Torx 30
Insert the power supply and coaxial cable through the upper cabinet access hole. Insert the light wire through the lower access hole.	Torque wrench 24 ± 4 Nm (18 ± 3 ft-lb)
Install the 4 wall mounting bolts (3). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).	5 ± 1 Nm (44 ± 9 in–lb)
Connect the interior light (2) and power supply connector.	
Install the TV support plate with its 6 screws (1). Torque the screws to 5 ± 1 Nm (44 ± 9 in–lb).	

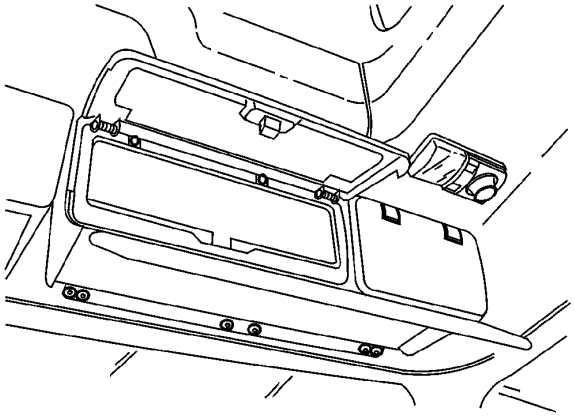
Note: Position of long and short overbunk cabinets may vary between RH and LH side locations.

Note: TV support plate may be omitted in some short overbunk cabinets.

14

Install the driver side window visor assembly. Torque the screws to 5 ± 0.8 Nm (45 ± 7 in-lb).	Socket 8 mm 5 ± 0.8 Nm (45 ± 7 in-lb)
Install the screw covers.	

15



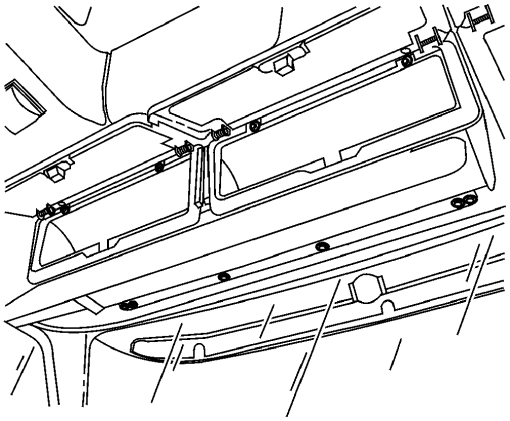
W8002510

If removed, install the front right overhead storage cabinet. Install the 4 mounting screws, with their rubber washer, to the carrier rail. Torque to 2 ± 0.3 Nm (18 ± 3 in-lb).	Torx 25 Socket 8 mm Torque wrench 2 ± 0.3 Nm (18 ± 3 in-lb)
Install the 6 screws over the windshield. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	3 ± 0.5 Nm (27 ± 4 in-lb)
Install the mounting screw covers.	

16

Install the right sun visor. Torque to 5 ± 0.8 Nm (44 ± 7 in-lb).	Socket 8 mm Torque wrench 5 ± 0.8 Nm (44 ± 7 in-lb)

17



W8002511

Install the front left overhead storage bin/sun visor assembly. Install the 4 mounting screws, with their rubber washer, to the carrier rail. Torque to 2 ± 0.3 Nm (18 ± 3 in-lb).	Torx 25 Socket 8 mm Torque wrench 2 ± 0.3 Nm (18 ± 3 in-lb)
Install the 6 screws, with their rubber washer, over the windshield. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	3 ± 0.5 Nm (27 ± 4 in-lb)

8554-03-02-03
Headliner, Replacement (Bunk)

DANGER

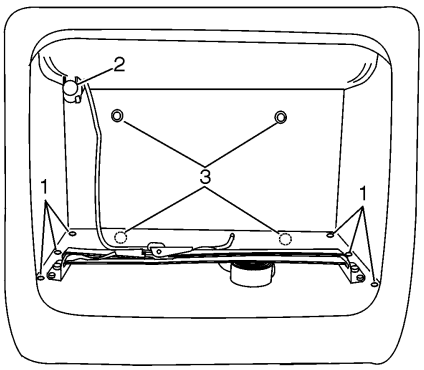
Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

VN610

Removal

1
Remove the mattress from the vehicle.

2



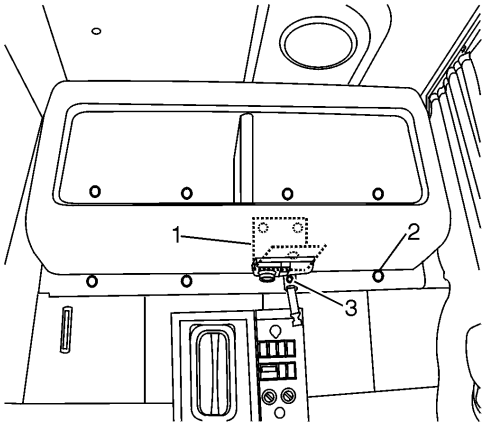
W8002514

Remove the upper right cabinet as follows: — Torx 40, Torx 30
Remove the TV support plate by removing the 6 screws (1).
Unplug the interior light (2) and power supply connector.
Remove the 4 wall mounting bolts (3).
Remove the cabinet from the vehicle.

Note: Position of long and short overbunk cabinets may vary between RH and LH side locations.

Note: TV support plate may be omitted in some short overbunk cabinets.

3

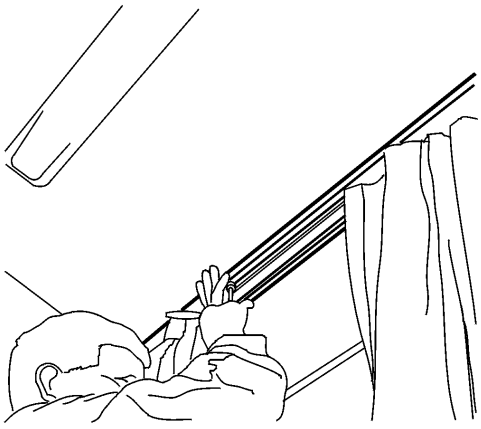


W8002513

Remove the left overbunk cabinet as follows: — Torx 40, Torx 25
Remove the interior light connector cover plate (1) with its 3 screws and unplug the light connector.
Remove the mounting screw covers and remove the 8 wall mounting bolts (2), including the one to the lower bunk tether (3).

Note: In vehicles with an upper bunk the long overbunk cabinet is replaced by a short cabinet.

4

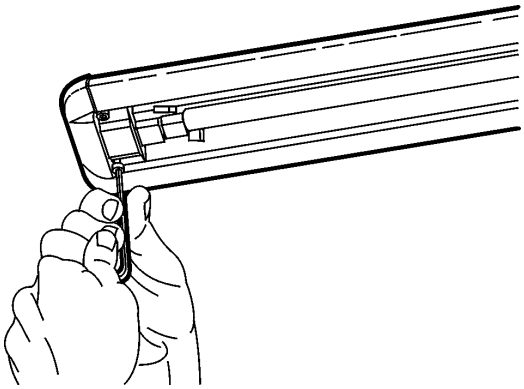


W8002490

Remove the bunk curtain rail assembly. — Torx 25

5
Remove the bunk headliner speakers as follows: — Torx 25
Remove the speaker cover, the 4 screws and finally disconnect the connector on the back.

6



W8002459

Remove the bunk headliner overhead lamp assembly. Disconnect the connector. Torx 25

7

Remove the right upper trim panel as follows: Torx 40
Remove the right lower bunk restraint tether bracket. Separate the interlock fasteners at the top to allow the trim panel fold down.

Note: The panel doesn't have to be completely removed. It's enough if it just falls down a bit.

8

Remove the 2 coat hooks from the center rear wall trim panel. Torx 25
Separate the interlock fasteners at the top to allow the trim panel to be pulled back for removal of the top rear wall trim panel.

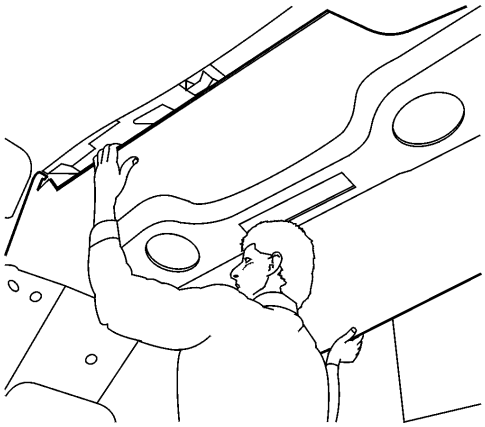
9

Remove the top rear wall trim panel as follows:
Remove the 2 snap covers and screws.
Separate the Velcro fasteners and remove the panel from the vehicle.
Use caution not to tear the panel around the rear window seal.

10

Remove the bezels around the left and right overhead storage bins over the seats.

11



W8002515

Remove the bunk headliner as follows: J-38778
Remove the 2 Christmas tree fasteners and separate the interlocking fasteners as necessary.
Carefully work the bunk headliner out from under the front headliner and away from the rear wall trim.
Remove it from the vehicle. Use caution not to crease the headliner material.

Installation

1
Carefully work the bunk headliner under the front headliner and behind the rear wall trim. Secure with interlock and Christmas tree fasteners. Use caution not to crease the headliner material.

Note: Two people are required for this step.

2
Install the bezels around the left and right overhead storage bins over the seats.

3
Install the top rear wall trim panel as follows:
Work the panel into position behind the top of the center wall trim panel.
Install the snap screws and covers.
Engage the Velcro fasteners.
Work the rear window seal around the panel.

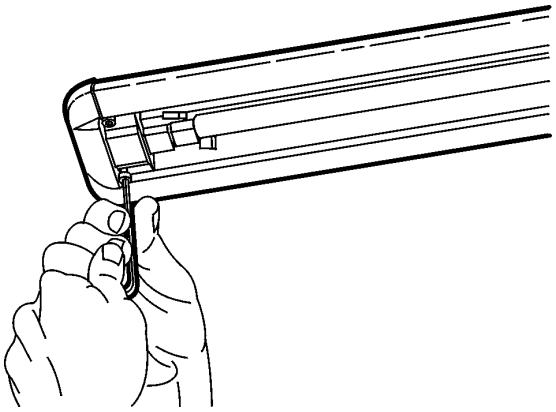
4

Engage the interlock fasteners on the center rear wall trim panel. Install the 2 coat hooks and torque the screws to 3 ± 0.5 Nm (27 ± 4 in-lb).	Torx 25 Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb).

5

Install the right upper trim panel as follows: Work the interior light wiring through the panel. Position the panel and engage the interlock fasteners. Install the right lower bunk restraint tether bracket. Torque the bolt to 24 ± 4 Nm (18 ± 3 ft-lb).	Torx 40 Torque wrench 24 ± 4 Nm (18 ± 3 ft-lb)

6



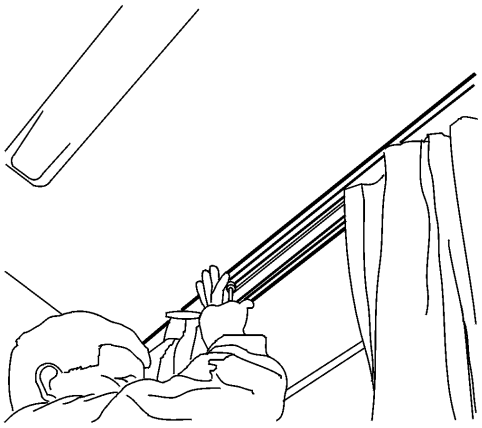
W8002459

Connect the bunk headliner overhead lamp assembly connector and install the lamp. Torque the screws to 3 ± 0.5 Nm (27 ± 4 in-lb).	Torx 25 Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

7

Install the bunk headliner speakers as follows: Connect the connector on the back and install using the 4 screws. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb). Install the cover.	Torx 25 Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

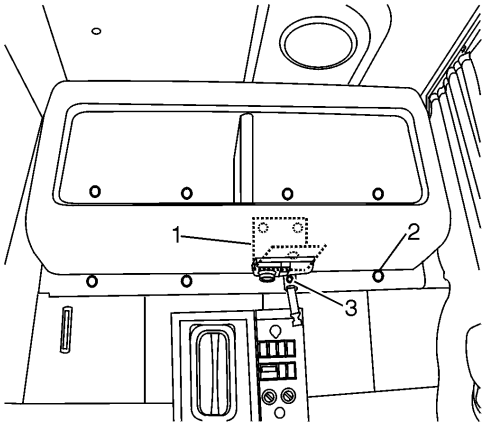
8



W8002490

Install the bunk curtain rail assembly. Torque the screws to 5 ± 1 Nm (44 ± 9 in–lb).	Torx 25 Torque wrench 5 ± 1 Nm (44 ± 9 in–lb)

9

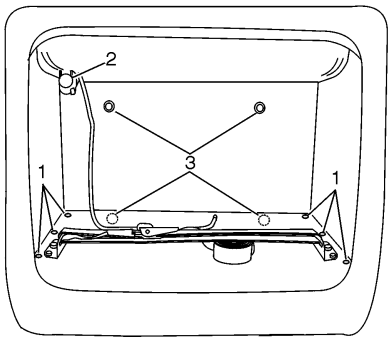


W8002513

Install the left overbunk cabinet as follows:	Torx 40 Torx 25
Insert the interior light wiring through the cabinet access hole.	Torque wrench 24 ± 4 Nm (18 ± 3 ft-lb)
Position the cabinet and install the mounting bolts (2). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).	24 ± 4 Nm (18 ± 3 ft-lb)
Install the left lower bunk restraint tether bracket with spacer (3). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).	3 ± 0.5 Nm (27 ± 4 in-lb)
Install the lower bolt trim covers.	
Connect the light connector and install the light connector cover (1). Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	

Note: In vehicles with an upper bunk the long overbunk cabinet is replaced by a short cabinet.

10



W8002514

Install the upper right cabinet as follows:	Torx 40 Torx 30
Insert the power supply and coaxial cable through the upper cabinet access hole. Insert the light wire through the lower access hole.	Torque wrench 24 ± 4 Nm (18 ± 3 ft-lb)
Install the 4 wall mounting bolts (3). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).	
Connect the interior light (2) and power supply connector.	
Install the TV support plate with its 6 screws (1). Torque to 5 ± 1 Nm (44 ± 9 in–lb).	5 ± 1 Nm (44 ± 9 in–lb)

Note: Position of long and short overbunk cabinets may vary between RH and LH side locations.

Note: TV support plate may be omitted in some short overbunk cabinets.

11

Install the mattress in the vehicle.

8554-03-02-03 Headliner, Replacement (Bunk)

⚠ DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

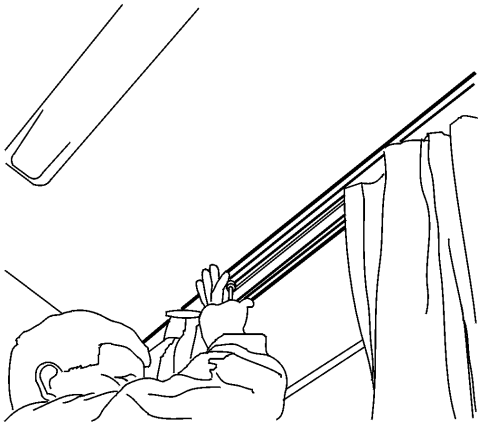
VN660

Removal

1
Remove the mattress from the vehicle.

2
Remove the upper right cabinet as follows:
Disconnect the HVAC duct in the wardrobe from the duct in the upper cabinet.
Remove the bolt and spacer between the upper and lower cabinet.
Disconnect the power supply connector.
Finally remove the 4 wall mounting bolts and remove the cabinet from the vehicle.

3



W8002490

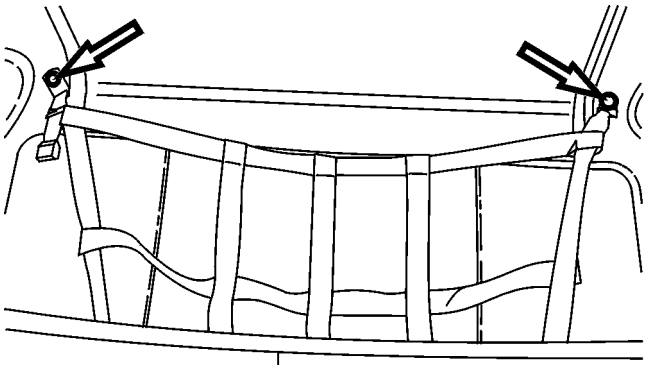
Remove the bunk curtain rail assembly. — Torx 25

Note: The curtains do not need to be removed from the rail.

4
Remove the upper bunk mounting bolts (two 12 mm and two 16 mm bolts) and remove the bunk from the vehicle. — Socket 12 mm, Socket 16 mm

Note: Two people are required for this step.

5

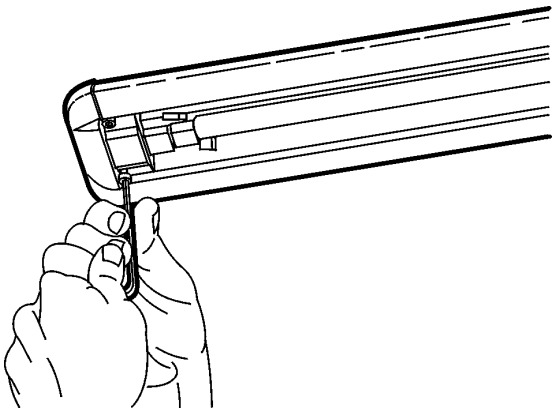


W8002457

Remove the upper bunk restraint by removing the 2 bolts. — Socket 16 mm

6
Remove the rear wall interior trim panel. It's held in place with Christmas tree and interlocking fasteners. Disengage fasteners and remove the panel from the vehicle. — J-38778

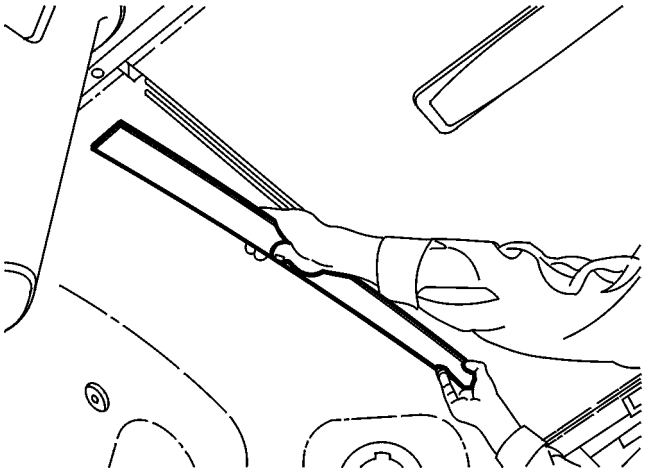
7



W8002459

Remove the overhead lamp assembly from the center rear headliner. Disconnect the electrical connector. — Torx 25

8

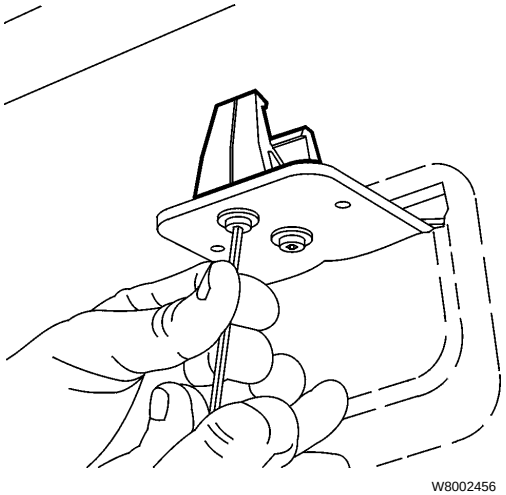

W8002461

Remove the 2 trim strips on each side of the center bunk headliner. Note: no tools required – they pop out.

9

Remove the center bunk headliner. It's held in place by Christmas tree and interlocking fasteners. Disengage fasteners and remove the panel from the vehicle. J-38778

10


W8002456

Remove the right side upper bunk support by removing the 2 screws to the cover and the 2 screws to the striker plate. Torx 25

11

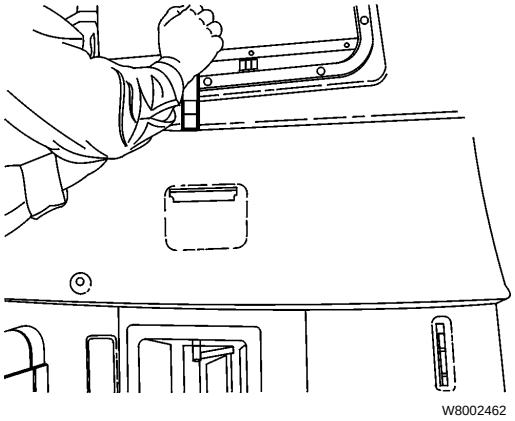
Remove the right side lower bunk restraint tether bracket. Torx 40

12

W8002463

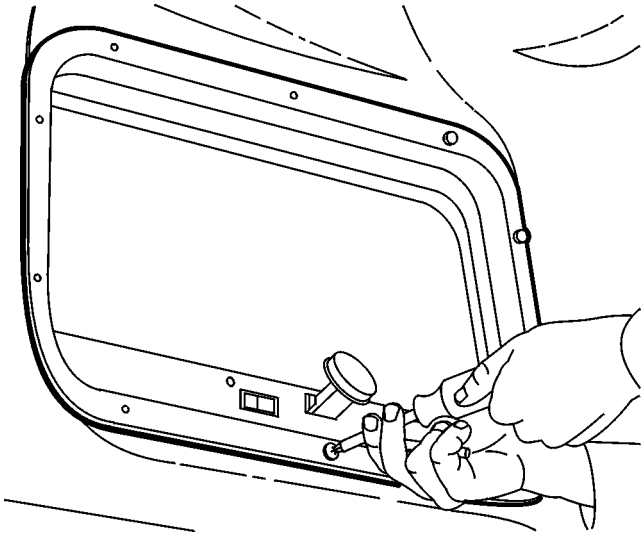
Remove the right side center trim panel as follows: Torx 20 Torx 15
Remove the front curtain rail from the first 2 right side clips to allow removal of one panel bottom mounting screw, nylon spacer and curtain rail mounting clip (1).
Remove one forward mounting screw with curtain hold-back snap fitting to allow removal of the plastic trim cover.

13


W8002462

The panel is now held in place with Christmas tree and interlocking fasteners. J-38778
Disengage fasteners and remove the panel from the vehicle.

14



W8002458

Remove the right side bunk window trim bezel.	Phillips screwdriver

15

Remove the speaker assembly from the right side bunk headliner panel as follows: Remove the speaker cover, remove the 4 screws and finally disconnect the connector on the back.	Torx 25

16

The right side bunk headliner panel is held in place with an upper trim support piece and Christmas tree fasteners. Remove the panel as follows: Disengage fasteners, pull the wires out through the cut-out and remove the panel from the vehicle.	J-38778

Installation

1

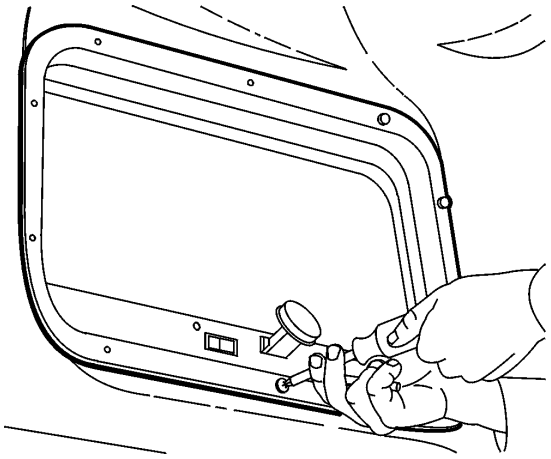
Install the right side bunk headliner panel as follows:
Place the panel in position and insert the power supply and coaxial cable through the cut-out in the panel. Work the panel behind the overhead storage cabinet and under the front headliner. After positioning the panel, install the upper trim support piece and secure all with Christmas tree fasteners.

Note: Two people are required for this step.

2

Install the speaker in the right side bunk headliner panel as follows: Connect the connector on the back, install the speaker and torque the 4 screws to 3 ± 0.5 Nm (27 ± 4 in-lb). Install the speaker cover.	Torx 25 Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

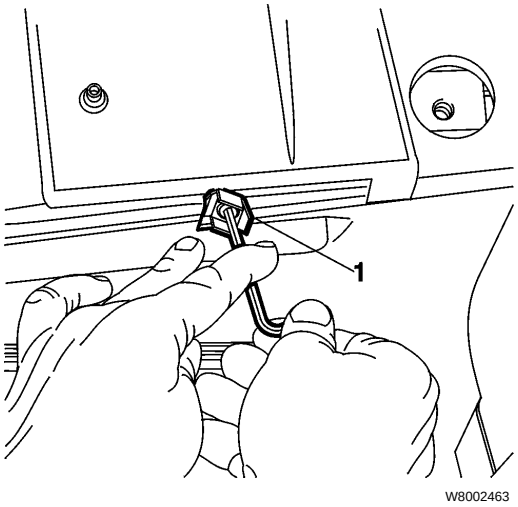
3



W8002458

Install the right side sleeper window trim bezel. Torque the screws to 3 ± 0.5 Nm (27 ± 4 in-lb).	Phillips screwdriver Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

4

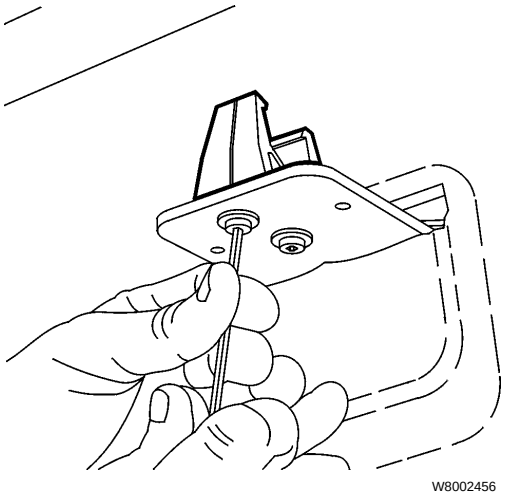


Install the right side center trim panel as follows: Note the position of the Christmas tree and interlocking fasteners. At the bottom of the panel, install the mounting screw, nylon spacer and curtain rail mounting clip (1). Torque to 5 ± 1 Nm (44 ± 9 in-lb). Put the trim cover piece in place and install the forward mounting screw with curtain hold-back snap fitting. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb). Snap the front curtain rail into the mounting clips. **Note:** Older vehicles (from 10/99 and before) don't have the trim cover piece. If so, the rail mounting clip with screw needs to go through the hole in the panel trim material and the excessive trim material needs to be tucked under the bottom edge of the panel.	Torx 20 Torx 15 Torque wrench 5 ± 1 Nm (44 ± 9 in-lb) 3 ± 0.5 Nm (27 ± 4 in-lb)

5

Install the right side lower bunk restraint tether bracket. Torque the bolt to 24 ± 4 Nm (18 ± 3 ft-lb).	Torx 40 Torque wrench 24 ± 4 Nm (18 ± 3 ft-lb)

6

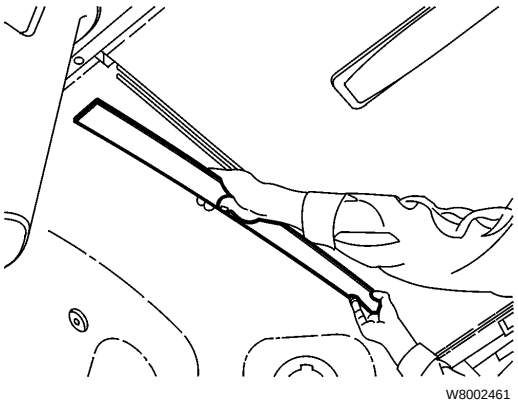


Install the right side upper bunk support cover and striker plate. Torque the screws to 10 ± 1.5 Nm (7 ± 1 ft-lb).	Torx 25 10 ± 1.5 Nm (7 ± 1 ft-lb)

7

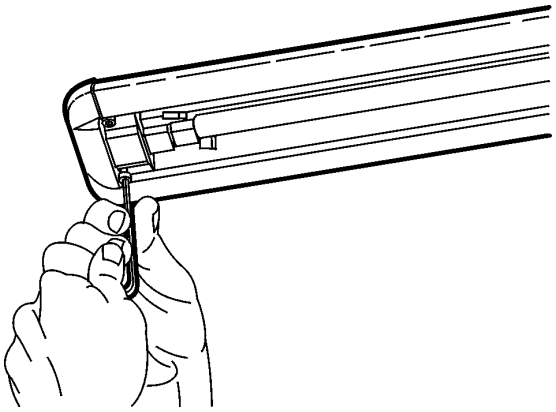
Install the center bunk headliner and secure with Christmas tree and interlocking fasteners.

8



Install the 2 trim strips on each side of the center bunk headliner.

9

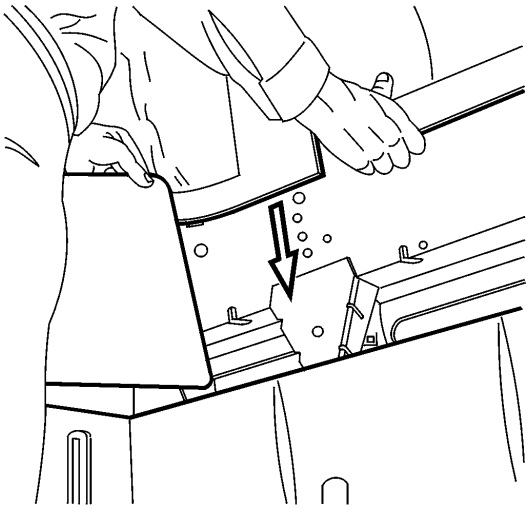


W8002459

Connect the electrical connector for the center bunk overhead lamp assembly, and install. Torque the screws to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Torque wrench
3 ± 0.5 Nm
(27 ± 4 in-lb)

10

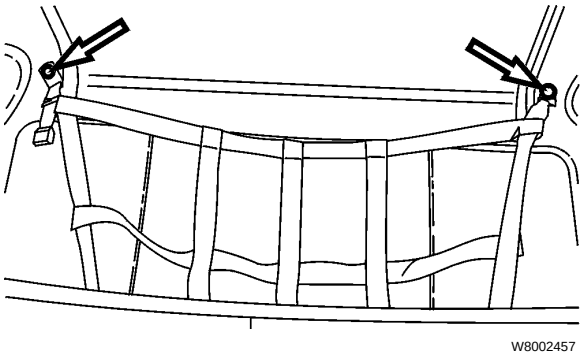


W8002455

Install the rear wall interior trim panel as follows:
First pull back the rear section of the left and right center trim panels (this will aid in installation).
Noting the position of the Christmas tree and interlocking fasteners, position the rear wall trim panel high on the rear wall. Slide the panel down the wall and behind the lower trim panel AND behind the left and right center trim panels.
After the panel is properly positioned secure with the Christmas tree and interlocking fasteners.

Note: Two people are required for this step.

11



W8002457

Install the upper bunk safety restraint. Make sure the latch is on the right hand side. Torque the bolts to 68 ± 7 Nm (50 ± 5 ft-lb).

Socket 16 mm
Torque wrench
68 ± 7 Nm
(50 ± 5 ft-lb)

12

Install the upper bunk by first securing the hinge bracket upper bolts. Torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Then secure the hinge bracket with the upper bunk restraint using the lower bolt. Torque to 68 ± 7 Nm (50 ± 5 in-lb).

Note: Two people are required for this step.

Socket 12 mm
Socket 16 mm
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)
68 ± 7 Nm
(50 ± 5 in-lb)

13

Install the sleeper curtain rail assembly. Torque the screws to 5 ± 1 Nm (44 ± 9 in-lb).

Torx 25
Torque wrench
5 ± 1 Nm
(44 ± 9 in-lb)

14

Install the upper right cabinet as follows:
Loosen the lower duct (inside the wardrobe).
Lift the cabinet into position and insert the power supply wiring and coaxial cable. Fit the cabinet over the HVAC duct at the rear of the cabinet.
Install the 4 wall mounting bolts and torque to 68 ± 7 Nm (50 ± 5 ft-lb).
Install the duct inside the wardrobe by sliding it up into the duct behind the upper cabinet.
Install the through bolt and spacer between the upper and lower cabinet. Torque to 12 ± 2 Nm (106 ± 18 in-lb).

Torx 40
Socket 10 mm
Torque wrench
68 ± 7 Nm
(50 ± 5 ft-lb)
12 ± 2 Nm
(78 ± 1.5 ft-lb)

15

Install the mattress in the vehicle.

8554-03-02-03
Headliner, Replacement (Bunk)

DANGER

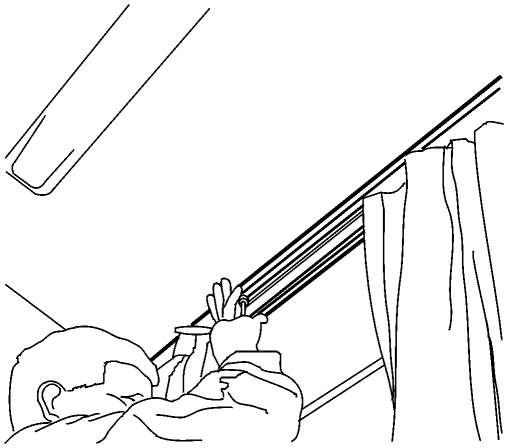
Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

VN770

Removal

1
Remove the lower mattress/work station cushions from the vehicle.

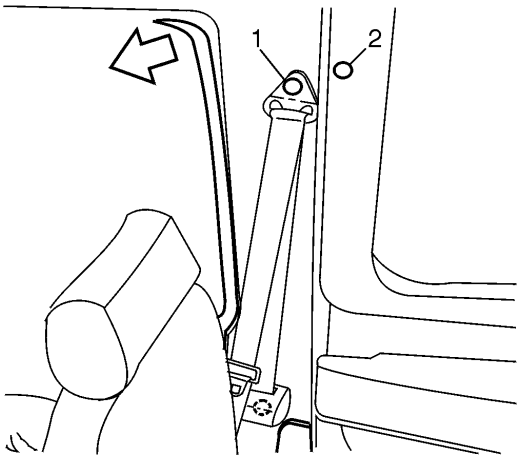
2



W8002490

Remove the bunk curtain rail assembly. Torx 25

3



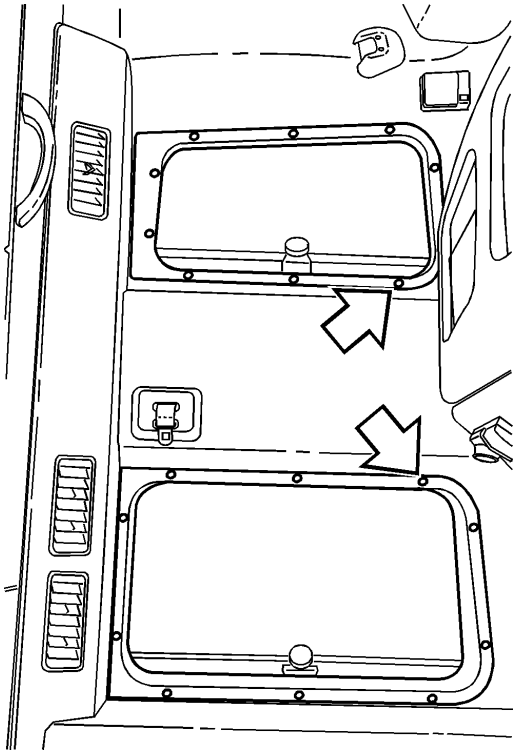
W8002491

Remove the following in both the right and left sides: J-38778 Torx 50
Remove the shoulder harness mounting bolts (1).
Pull back the upper rear of the door seal to loosen the B pillar trim.
Gently pull back the B pillar trim and remove the Christmas tree fastener (2) to the upper tower cabinets.

Note: Use caution not to crease the trim panel.

4
Remove the bunk ladder assembly (if equipped). Torx 30

5

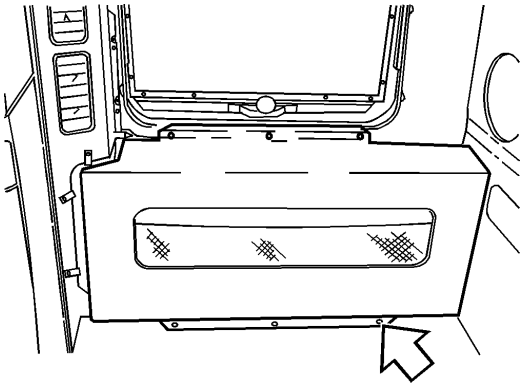


W8002176

Remove the 4 bunk window trim bezels. There are 10 screws to be removed for each windows trim bezel.

Phillips screwdriver

6

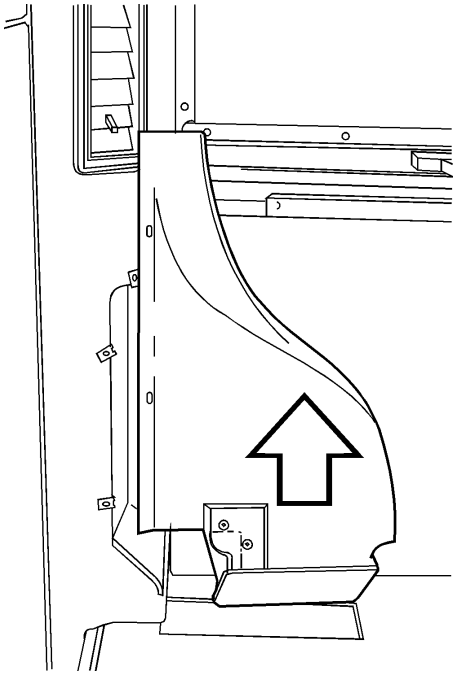


W8002177

Remove the torx screws holding the cabinet below the lower right bunk windows.

Torx 25

7

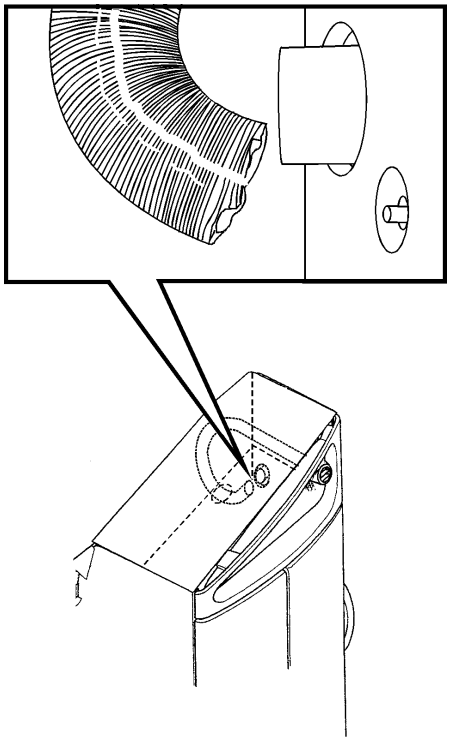


W8002178

Remove the 6 torx screws holding the ducting from the bunk HVAC unit to the right bunk fascia panel.

Torx 25

8



W8002180

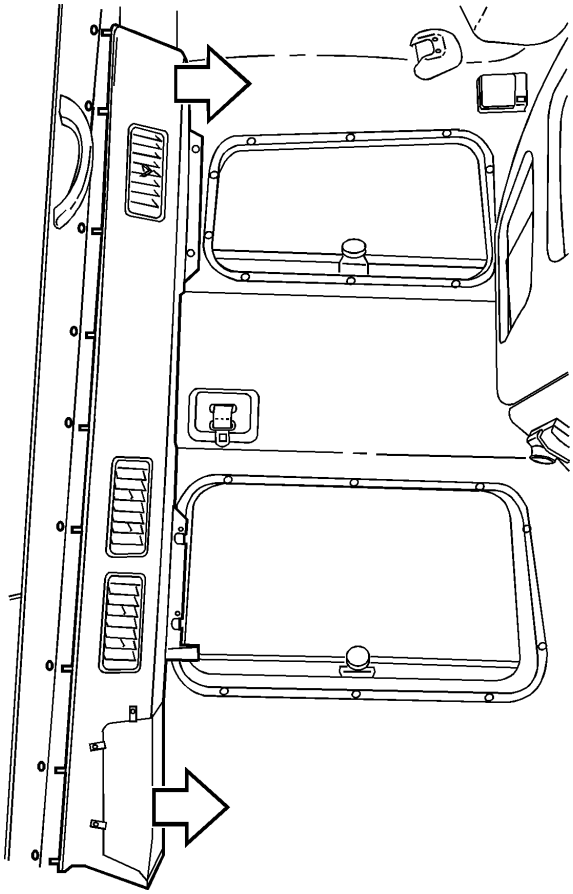
Remove the duct hose in the upper right tower cabinet from the right bunk fascia panel.

Torx 25

9

Pull back the lower right trim panel to expose the lower right bunk fascia panel mounting screws. This panel is secured with Christmas tree and/or interlock fasteners. J-38778

10

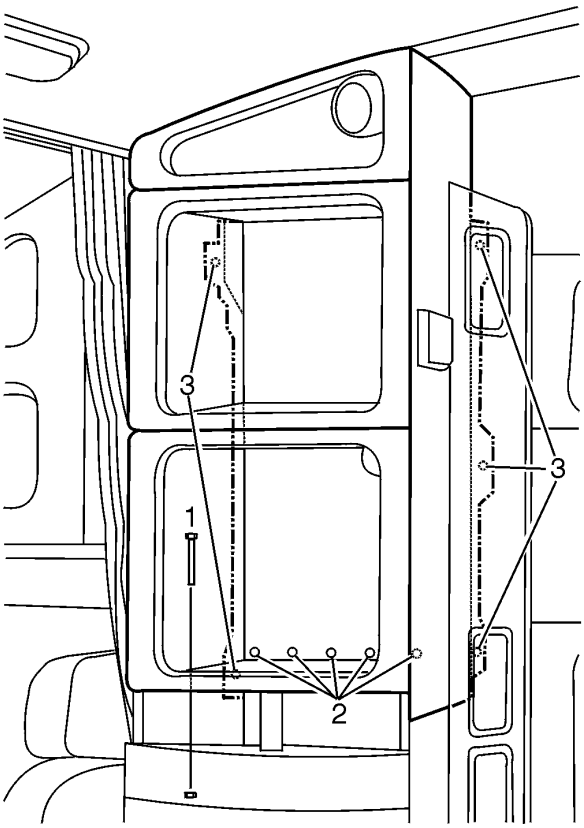


W8002179

Remove 5 torx screws, 3 along the top and 2 behind the trim panel, mounting the vent fascia to the wall.
Remove the eight nuts from the plastic studs.
Remove the fascia panel from its mounting location and remove it from the vehicle.

Torx 25
Socket 11 mm

11



W8002492

Remove the upper right tower cabinet as follows:
Remove any objects stored in the cabinet.
Unplug the power supply connectors.
Remove the 5 bolts from the rear bottom wall (2).
Remove the 6 bolts between the upper and lower cabinet (1).
Pull the upper front trim panel back to expose the upper front wall mounting bolt. Remove the bracket from the cabinet that holds the interlock fastener.
Pull back the B pillar trim to expose the lower front wall mounting bolt.
Remove the 5 wall mounting bolts (3).

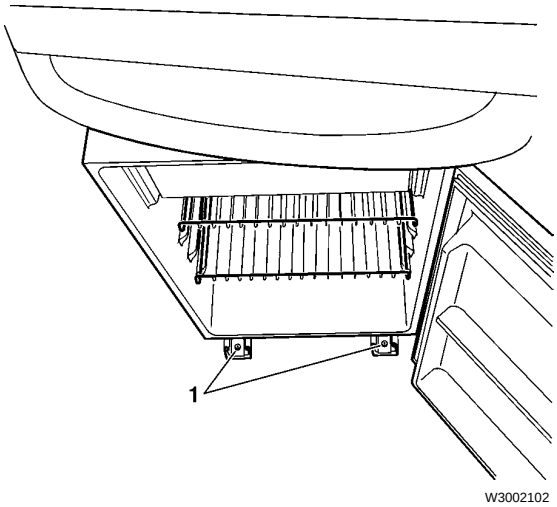
Torx 40
Torx 30
Torx 20
Socket 11 mm
Socket 12 mm

12

Remove the upper right tower cabinet from its mounting location and out of the vehicle.

Note: This step requires 2 people.

13



W3002102

Remove the refrigerator (if equipped). Open the refrigerator door. Remove the 2 locks from the floor mounting rail (1).

Torx 30

14

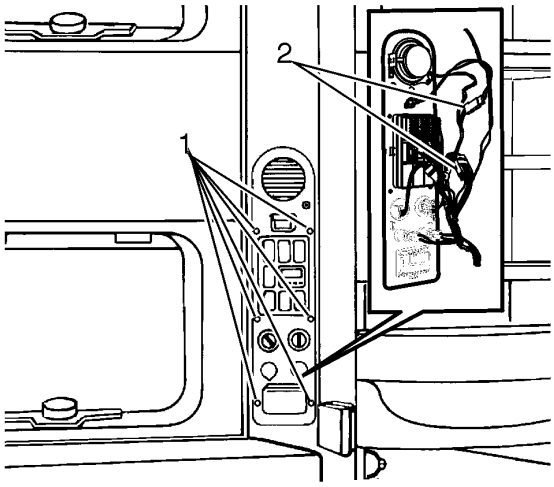
Slide the refrigerator out from the cabinet and disconnect the 12 V connector. Remove it from the vehicle.

15

Remove the left tower cabinet drawer stop. Remove the sink plumbing and electrical connectors (if equipped). Remove the drawer.

Torx 20
Socket 7 mm
Slotted screwdriver

16



W8002493

Remove the bunk master control panel from the left bunk fascia panel as follows:
Remove the 6 screws (1), disconnect the two connectors at the top (2) and let the bunk master control panel hang from the wiring harness.

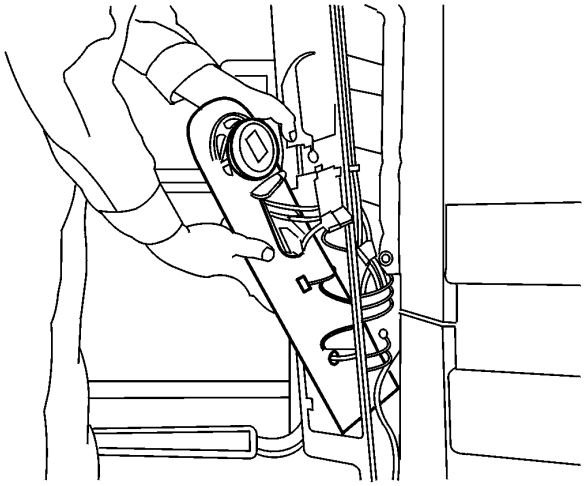
Phillips screwdriver

17

Pull back the lower left trim panel to expose the lower left bunk fascia panel mounting screws. The panel is secured with Christmas tree and/or interlock fasteners.

J-38778

18

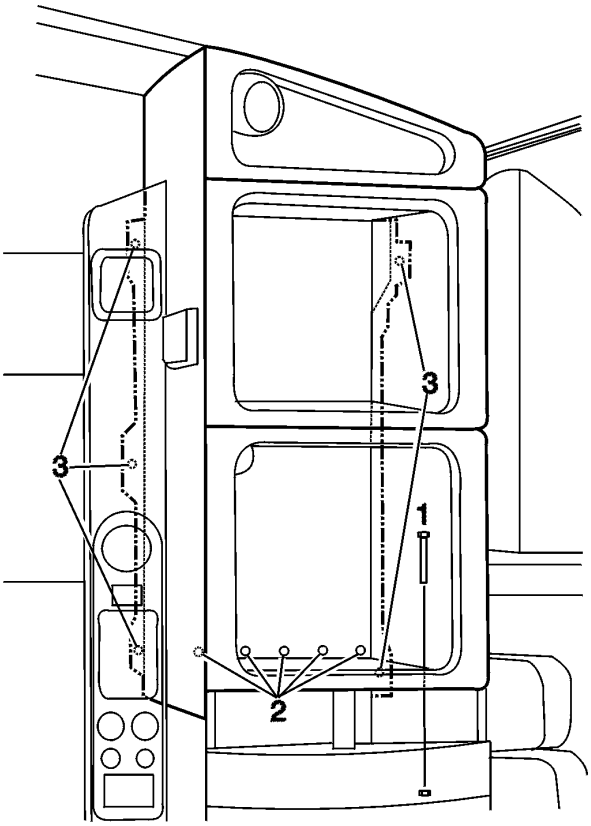


W8002494

Remove the screws securing the left bunk fascia panel to the wall and the nuts securing the panel to the left tower cabinet, and remove it from its mounting location.
Turn the bunk master control panel to fit through the cut out in the fascia panel and remove the fascia panel from the vehicle.

Torx 25
Socket 11 mm

19



W8002495

Remove the upper left tower cabinet as follows:
Remove any objects stored in the cabinet. Unplug the power supply connectors.
Remove the 5 bolts from the rear bottom wall (2). Remove the 6 bolts between the upper and lower cabinet (1).

Torx 40
Torx 30
Torx 20
Socket 12 mm
Socket 13 mm
Phillips screwdriver

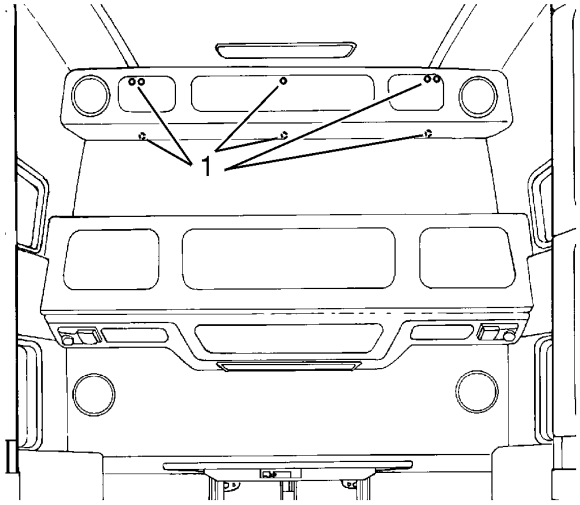
Note: The lower cabinet door hinges may need to be temporarily removed to remove the 2 front bolts. Re-install hinges before removing the cabinet.

Pull the upper front trim panel back to expose the upper front wall mounting bolt.
Remove the bracket from the cabinet that holds the interlock fastener. Pull back the B pillar trim to expose the lower front wall mounting bolt. Remove the 5 wall mounting bolts (3).

20
Remove the upper left tower cabinet from its mounting location and out of the vehicle.

Note: This requires 2 people.

21

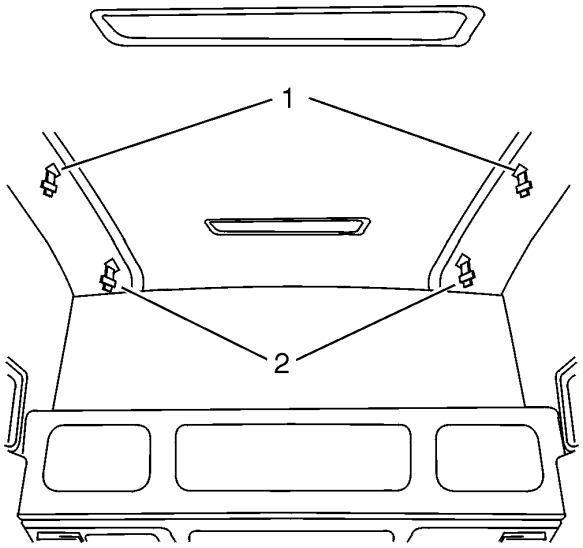


W8002496

Remove any objects stored in the bunk upper rear wall storage cabinet. Remove the 8 bolts and disconnect the speaker connectors. Remove the cabinet from the vehicle.

Torx 40

22

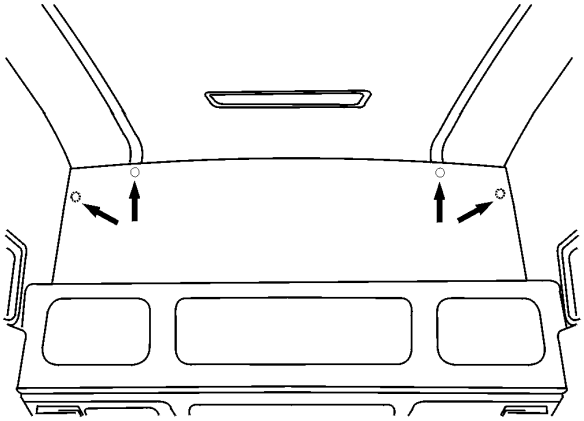


W8002497

Remove the upper bunk/rear wall restraint tongues (2).
Remove the upper bunk/roof restraint receivers (1).

Socket 18 mm
Torx 40

23



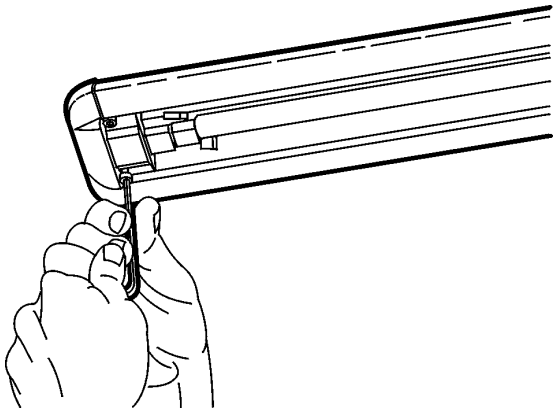
W8002498

Disengage the Christmas tree fasteners on the top of the rear wall trim panel to allow access to the rear part of the center headliner.

Note: The 2 lower Christmas tree fasteners are not visible.

J-38778

24



W8002459

Remove the center bunk headliner overhead lamp assemblys. Disconnect the connector.

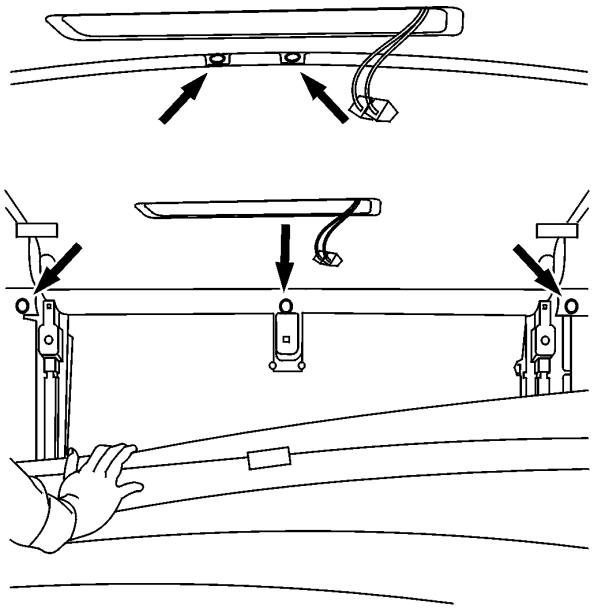
Torx 25

25
Remove the 2 trim strips on each side of the center bunk headliner.

26
Disengage the Christmas tree fasteners that secure the plastic support strips between the bunk center and side headliners. Use caution when bending back the side headliner panels not to crease the material.

J-38778

27



W8002499

Disengage the 2 Christmas tree fasteners at the front and the 3 at the rear of the center bunk headliner. J-38778

28
The center bunk headliner is now held in place with interlocking fasteners and the mating headliner components. Disengage fasteners. Begin at the front and carefully work the headliner out of the mating headliner components and remove from the vehicle. Use caution not to crease the headliner panels or mating components during removal.

Note: This step requires 2 people.

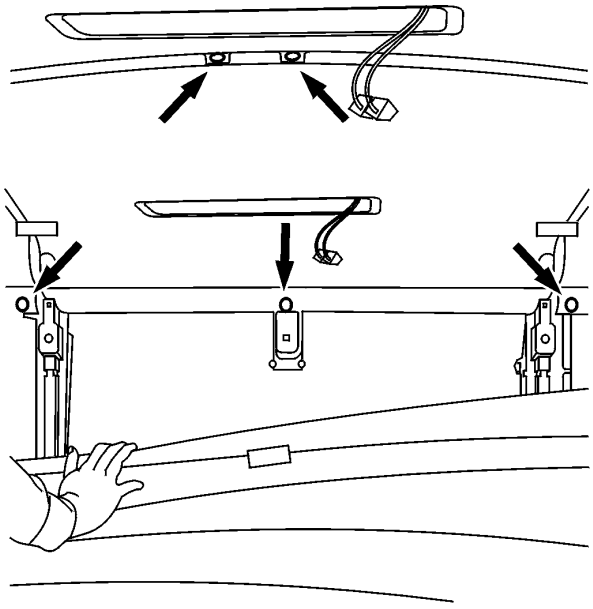
Installation

1
Note the location of the interlock fasteners before installation of the replacement center bunk headliner.

2
Begin at the rear and carefully work the replacement headliner into its mounting location. Use caution not to crease the headliner panels or mating components during installation. Engage the interlock fasteners when the headliner is properly positioned.

Note: This step requires 2 people.

3



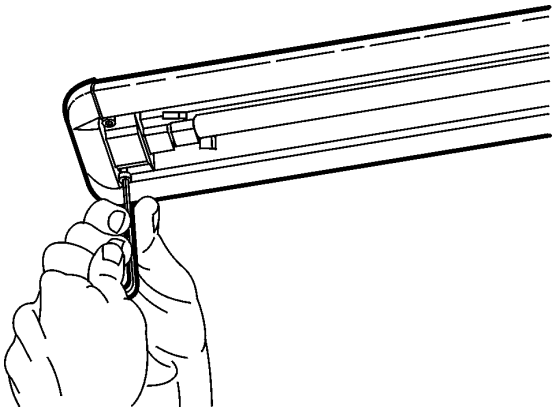
W8002499

Engage the 2 Christmas tree fasteners at the front and the 3 at the rear of the center bunk headliner.

4
Install the plastic support strips between the bunk center and side headliners and secure with Christmas tree fasteners. Use caution when bending back the side headliner panels not to crease the material.

5
Install the 2 trim strips on each side of the center bunk headliner.

6

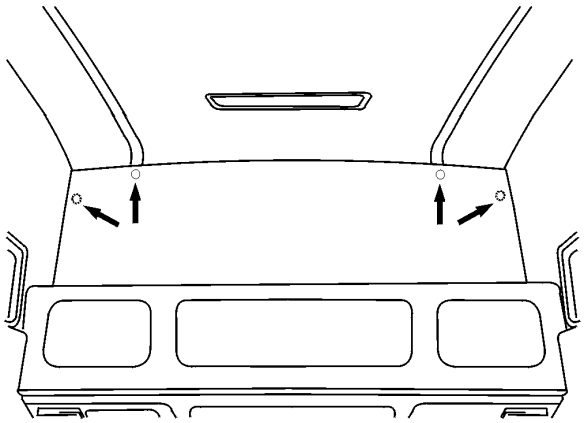


W8002459

Install both overhead lamp assemblies as follows:
Connect the connector. Install the assembly and torque the 4 screws to 3 ± 0.5 Nm (27 ± 4.5 in-lb).
Install the lamp cover.

Torx 25
Torque wrench
3 ± 0.5 Nm
(27 ± 4.5 in-lb)

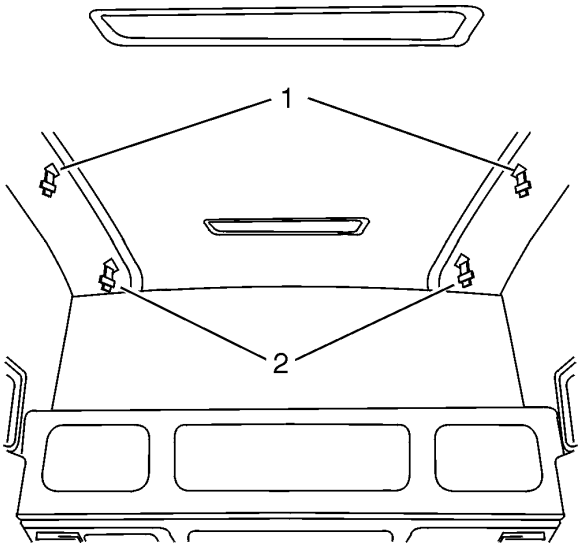
7



W8002498

Secure the rear wall trim panel with the 4 Christmas tree fasteners.

8

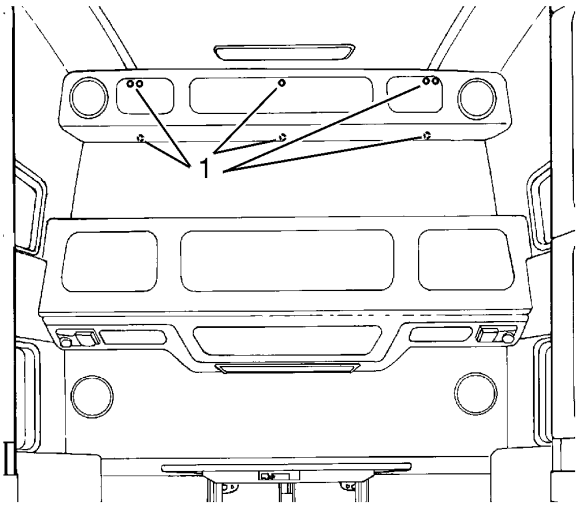


W8002497

Install the upper bunk/roof restraint receivers (1). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Install the upper bunk/rear wall restraint tongues (2). Torque to 68 ± 7 Nm (26 ± 5 ft-lb).

Torx 40
Socket 18 mm
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)
68 ± 7 Nm
(26 ± 5 ft-lb)

9



W8002496

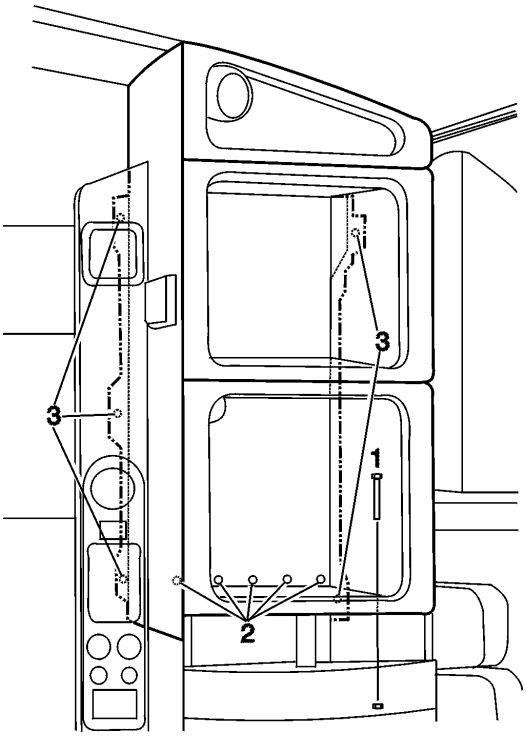
Position the bunk upper rear wall storage cabinet to its mounting location. Connect the speaker connectors and secure the cabinet with the 8 screws (1). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).

Torx 40
Torque Wrench
24 ± 4 Nm
(18 ± 3 ft-lb)

10
Position the upper left tower cabinet into its mounting location. Work the cabinet around trim panels and pull the wiring through the cabinet as necessary.

Note: This step requires 2 people.

11



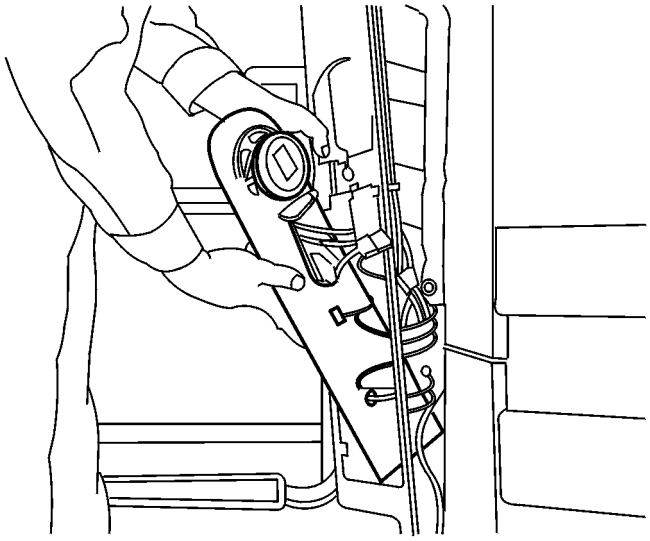
W8002495

Install the upper left tower cabinet as follows:	Torx 40
Start all cabinet mounting bolts before beginning tightening. Install the 5 wall mounting bolts (3). Torque to 24 ± 4 Nm (18 ± 3 ft -lb).	Torx 30
Install the 6 bolts between the upper and lower cabinet (1). Torque to 24 ± 4 Nm (18 ± 3 ft -lb).	Torx 20
	Socket 12 mm
	Socket 13 mm
	Phillips screwdriver
	Torque wrench
	24 ± 4 Nm (18 ± 3 ft -lb)
	24 ± 4 Nm (18 ± 3 ft -lb)
	10 ± 1.5 Nm (7 ± 1 ft-lb)

Note: The lower cabinet door hinges may need to be temporarily removed to install the 2 front bolts. Re-install hinges after the bolts between the upper and lower cabinet have been tightened.

Install the 5 bolts to the rear bottom wall (2). Torque to 10 ± 1.5 Nm (7 ± 1 ft-lb).
Torque all cabinet mounting bolts.
Install the bracket that holds the interlock fastener to the cabinet. Secure the upper front trim panel with the interlock fasteners. Connect the power supply connectors.

12

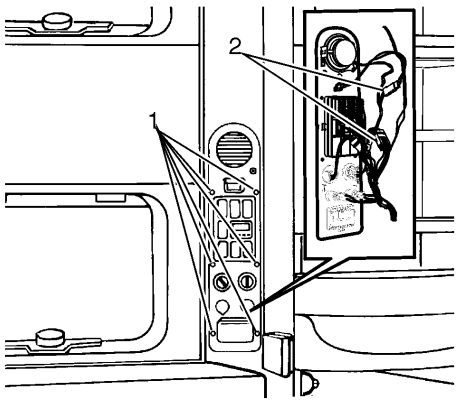


W8002494

Fit the bunk master control panel through the cut out in the left bunk fascia panel.	Torx 25
Position the left bunk fascia panel into its mounting location. Secure the panel to the tower cabinets with the plastic stud nuts.	Socket 11 mm
Secure the panel to the wall with screws. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	3 ± 0.5 Nm (27 ± 4 in-lb)

13
Secure the lower left trim with Christmas tree and/or interlock fasteners.

14



W8002493

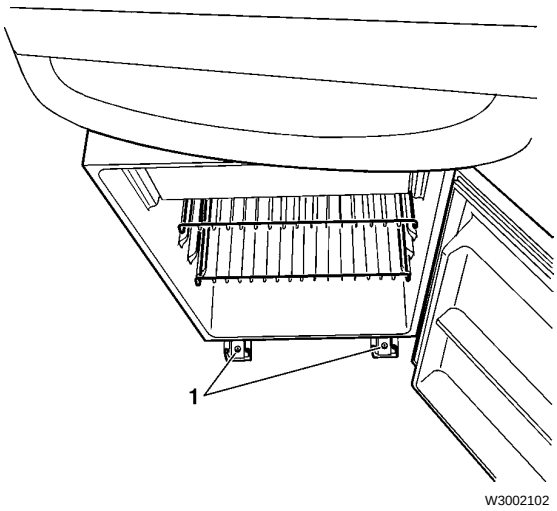
Connect the bunk master control panel connectors (2). Using the 6 screws (1), install the bunk master control panel into the left bunk fascia panel.	Phillips screwdriver

15

Install the left tower cabinet drawer. Connect the sink plumbing and electrical connectors (if equipped). Install the drawer stop.

Torx 20
Socket 7 mm
Slotted screwdriver

16



Install the refrigerator (if equipped) as follows:
Place the refrigerator on the floor just in front of the cabinet.
Connect the 12 V power supply, using the locking connector.
Align the refrigerator mounting brackets with the floor tracks and slide it as far back on the tracks as possible.
Open the refrigerator door and install the locks in the floor mounting rail (1). Torque to 13 ± 2 Nm (10 ± 1.5 ft-lb).

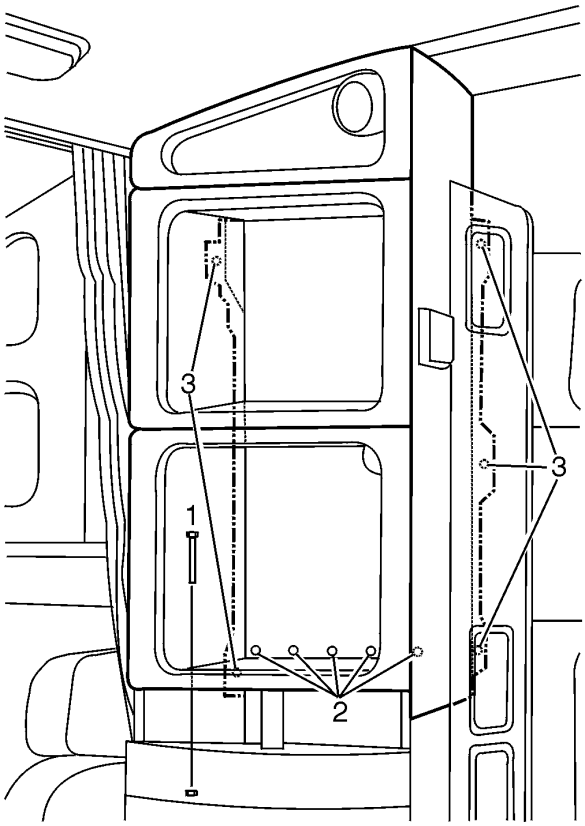
Torx 30
Torque wrench
13 ± 2 Nm
(10 ± 1.5 ft-lb)

17

Position the upper right tower cabinet into its mounting location. Work the cabinet around trim panels and pull wiring through the cabinet as necessary.

Note: This step requires 2 people.

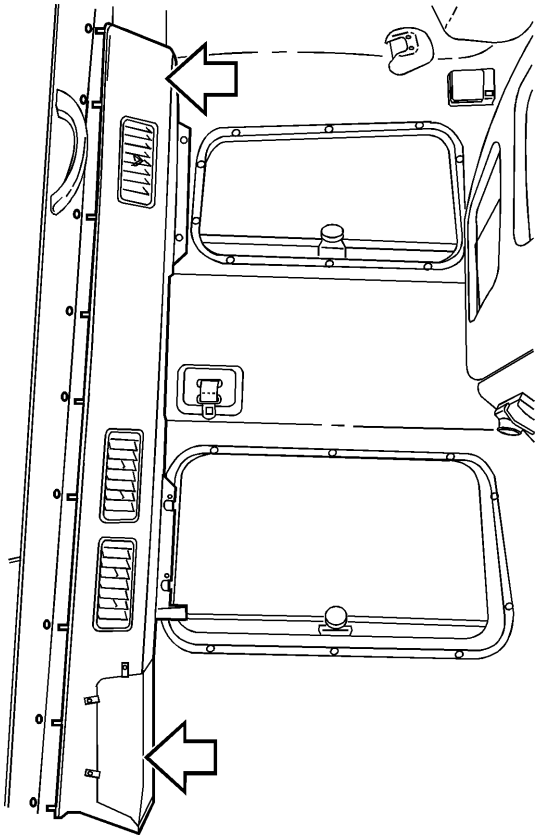
18



Install the upper right tower cabinet as follows:
Start all cabinet mounting bolts before beginning tightening.
Install the 5 wall mounting bolts (3). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Install the 6 bolts between the upper and lower cabinet (1). Torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Install the 5 bolts to the rear bottom wall (2). Torque to 10 ± 1.5 Nm (7 ± 1 ft-lb).
Torque all cabinet mounting bolts.
Install the bracket that holds the interlock fasteners to the cabinet. Secure the upper front trim panel with the interlock fasteners.
Connect the power supply connectors.

Torx 40
Torx 30
Torx 20
Socket 12 mm
Socket 13 mm
Phillips screwdriver
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)
24 ± 4 Nm
(18 ± 3 ft-lb)
10 ± 1.5 Nm
(7 ± 1 ft-lb)

19



W8002182

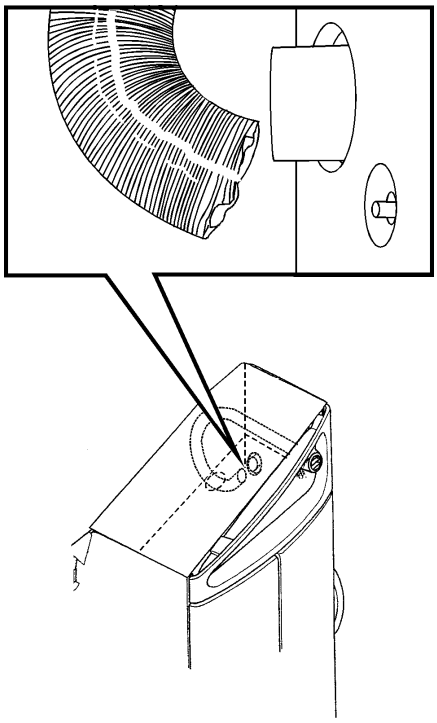
Position the right bunk fascia panel into its mounting location. Secure the panel to the tower cabinets with the plastic stud nuts. Secure the panel to the wall with screws. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Socket 11 mm
Torque wrench
3 ± 0.5 Nm
(27 ± 4 in-lb)

20

Secure the lower right trim with Christmas tree and/or interlock fasteners.

21

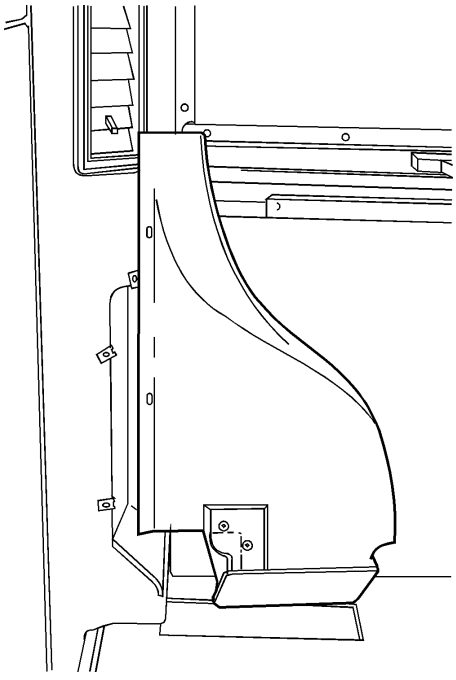


W8002180

Secure the duct hose in the upper right tower cabinet to the right bunk fascia panel.

Torx 25

22

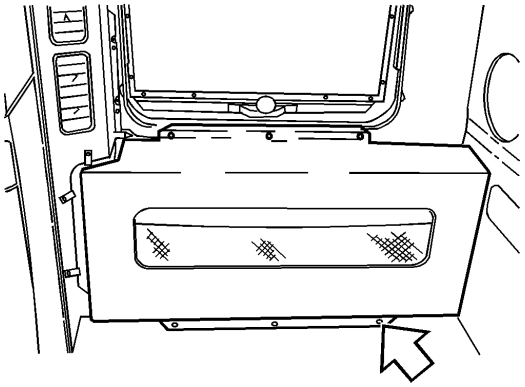


W8002183

Install the duct from the bunk HVAC unit to the right bunk fascia panel. Torque the screws to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Torque wrench
3 ± 0.5 Nm
(27 ± 4 in-lb)

23

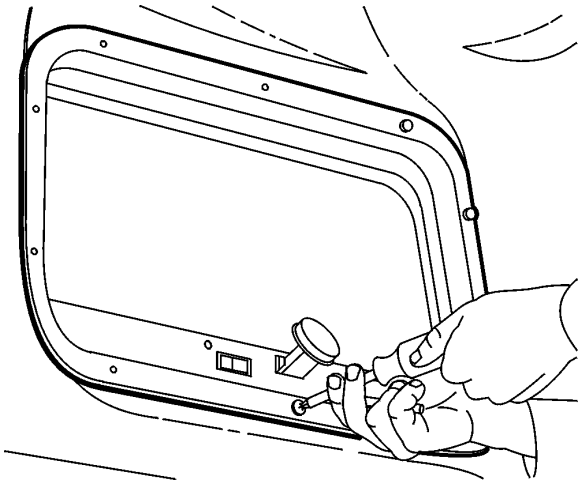


W8002177

Install the cabinet below the lower right bunk window. Torque the 3 bottom screws to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Torque wrench
3 ± 0.5 Nm
(27 ± 4 in-lb)

24



W8002458

Install the 4 bunk window trim bezels. Torque the screws to 3 ± 0.5 Nm (27 ± 4 in-lb).

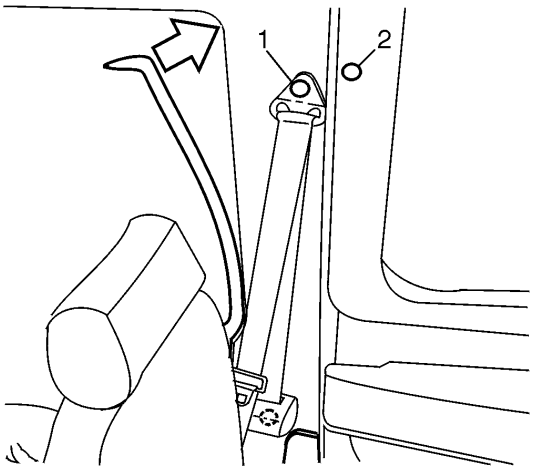
Phillips screwdriver
Torque wrench
3 ± 0.5 Nm
(27 ± 4 in-lb)

25

Install bunk ladder assembly (if equipped). Torque the bolts to 10 ± 1.5 Nm (7 ± 1 ft-lb).

Torx 30
Torque wrench

26



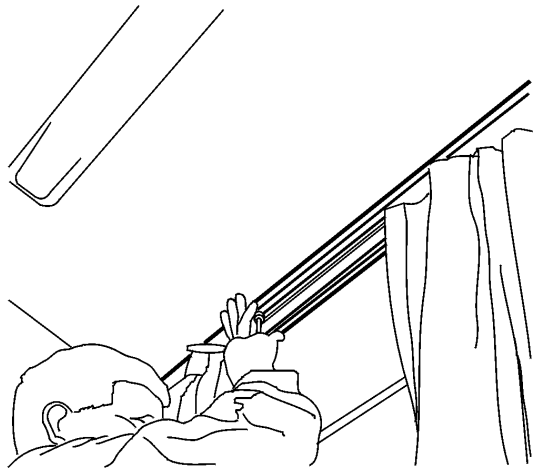
W8002501

Install both right and left B pillar trims as follows:
Secure the B pillar trim to the upper tower cabinets with the Christmas tree fasteners. Properly position the B pillar trim and reinstall the door seal to secure.
Install the seat belt shoulder harness mounting bolts. Torque to 68 ± 7 Nm (50 ± 5 ft-lb).

Note: Use caution not to crease the trim panel.

Torx 50
Torque wrench
68 ± 7 Nm
(50 ± 5 ft-lb)

27



W8002490

Install the sleeper curtain rail assembly. Torque the screws to 5 ± 1 Nm (44 ± 9 in-lb).

Torx 25
Torque wrench
5 ± 1 Nm
(44 ± 9 in-lb)

28

Install the lower mattress/work station cushions to the vehicle.

8554-03-02-04 Headliner, Replacement (Front Lower)

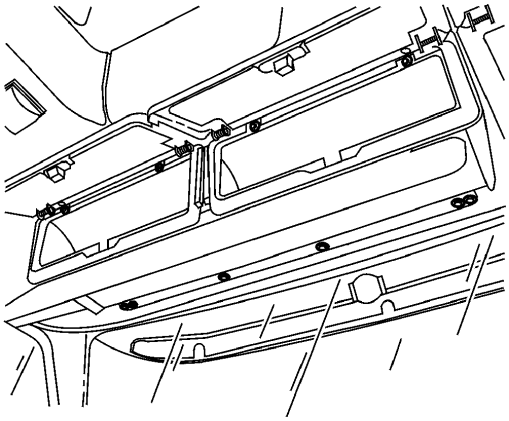
DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

VN660/770

Removal

1



W8002511

Remove the front left overhead storage cabinet/sun visor assembly. There are 4 bolts in the upper front and 6 bolts in the back.

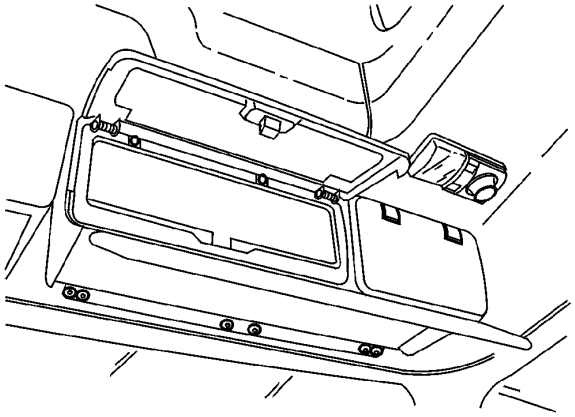
Torx 25
Socket 8 mm

2

Remove the right sun visor.

Socket 8 mm

3



W8002510

Remove the front right overhead storage cabinet. There are 2 bolts in the upper front and 6 bolts in the back.

Note: 2 screw covers on the far right facing panel must be removed to gain access to the mounting screws.

Torx 25
Socket 8 mm

4

Remove the front overhead storage cabinet assembly carrier rails. 3 bolts holds each carrier rail.

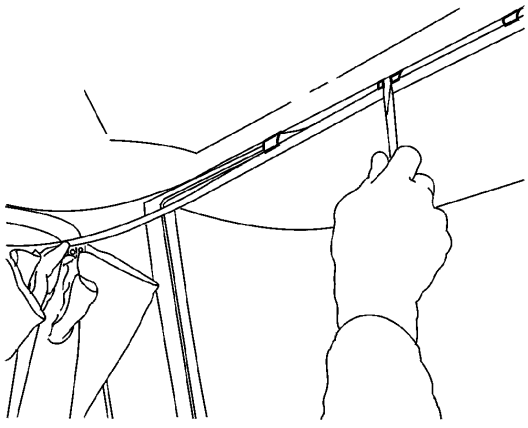
Torx 40

5

Remove the window visor on the drivers side. Remove the 2 covers to gain access to the 2 screws.

Socket 8 mm

6



W8002507

Remove the front curtain rail assembly. Use a wide blade screwdriver to carefully pry the rail out of one side then the other side on each retaining clip. Remove the rail assembly from the vehicle.

Note: Use caution not to deform the rail assembly.

Slotted screwdriver
Torx 15

7
Remove the upper grab handle bolt cover from the A pillar trim. Remove the bolt and pull the handle out of the cover.
Repeat on opposite side.
Socket 12 mm

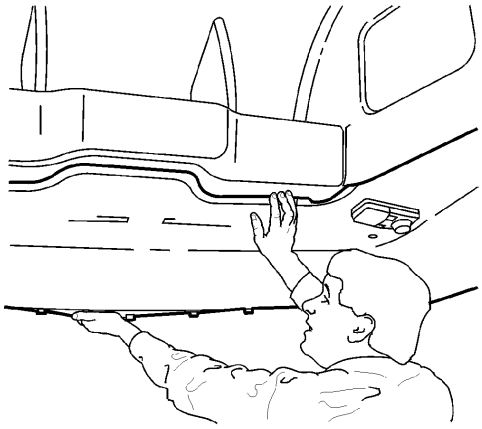
8
Pull the door seal away from the A pillar trim at the top of the door.
Remove the molding clip by pressing in the center button.
Remove the A pillar trim.
Repeat on opposite side.

9
Check the retaining clips used to attach the front curtain rail assembly and remove all that are attached with screws.
Torx 15

Note: Nylon spacers are used between the headliner and cab mounts. Note their position for re-assembly.

10
Remove the front curtain snap/bunk center trim panel screw.
VN660 built 11/99 and after: Remove the plastic trim covers at the rear end of the headliner.
Torx 15

11



W8002508

Pull down the front of the headliner and work the rear section out from under the overhead storage compartments. Disengage one interlocking fastener.
Disconnect the lamp connectors.
Remove the headliner from the vehicle.

Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

12
Remove the lamp assemblies for installation in the replacement headliner.
Torx 20

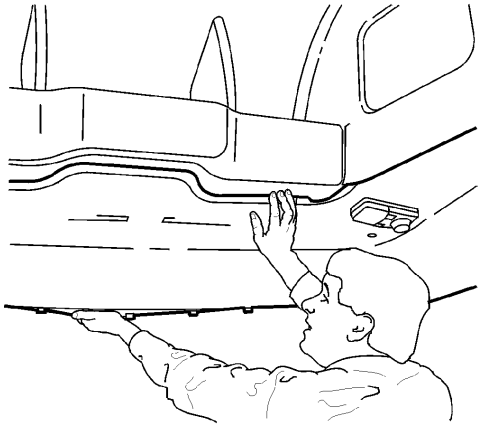
Installation

1
Install the lamp assemblies in the replacement headliner.

2
Note the location of all the interlocking fasteners on the headliner to aid in installation.
Position the headliner in the cab below its mounting location and connect the lamp assembly connectors.

Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

3


W8002508

Lift the headliner assembly into position. Work the rear of the headliner under the lip of the overhead storage compartments. Temporarily secure the interlocking fasteners.

Note: This step requires 2 people.

4

Add the nylon spacers between headliner and cab screw holes.	Torx 15
Install all screws and retaining clips.	Torque wrench
Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	3 ± 0.5 Nm (27 ± 4 in-lb)

5

Install the front curtain snap/bunk center trim panel screw. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	Torx 15 Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

Note: VN660 built 11/99 and after: Install the plastic trim covers before installing the snap/bunk trim panel screw.

6
Install the A pillar trim. Secure with the molding clip.
Repeat on opposite side.

7

Install the grab handle. Torque the bolt to 24 ± 4 Nm (18 ± 3 ft-lb).	Socket 12 mm
Replace the bolt cover trim.	Torque wrench
Repeat on opposite side.	24 ± 4 Nm (18 ± 3 ft-lb)

8
Install the door seals.

9
Install the front curtain rail assembly. Use caution not to deform the rail assembly.
Position the rail and snap it into the retaining clips.

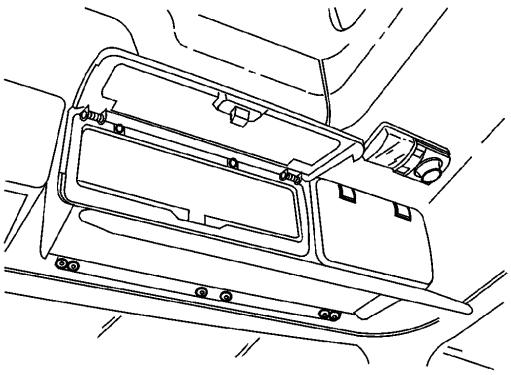
10

Install the driver side window visor assembly. Torque to 5 ± 0.8 Nm (44 ± 7 in-lb).	Socket 8 mm Torque wrench 5 ± 0.8 Nm (44 ± 7 in-lb)
Install the screw covers.	

11

Install the front overhead storage cabinet assembly carrier rails. Torque to 24 ± 4 Nm (18 ± 3 ft-lb).	Torx 40 Torque wrench 24 ± 4 Nm (18 ± 3 ft-lb)

12

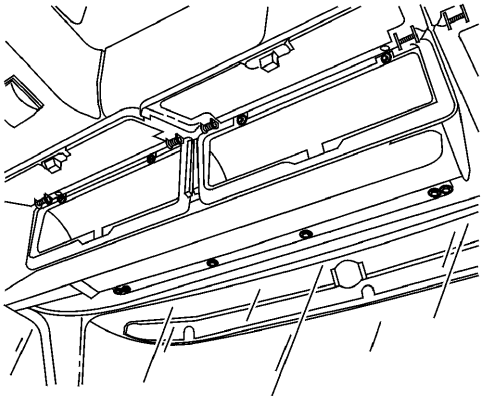

W8002510

Install the front right overhead storage cabinet. Install the 4 mounting screws, with their rubber washer, to the carrier rail. Torque to 2 ± 0.3 Nm (18 ± 3 in-lb).	Torx 25 Socket 8 mm Torque wrench 2 ± 0.3 Nm (18 ± 3 in-lb)
Install the 6 screws over the windshield. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	3 ± 0.5 Nm (27 ± 4 in-lb)
Install the mounting screw covers.	

13

Install the right sun visor. Torque to 5 ± 0.8 Nm (44 ± 7 in-lb).	Socket 8 mm Torque wrench 5 ± 0.8 Nm (44 ± 7 in-lb)

14



W8002511

Install the front left overhead storage bin/sun visor assembly. Install the 4 mounting screws, with their rubber washer, to the carrier rail. Torque to 2 ± 0.3 Nm (18 ± 3 in-lb). Install the 6 screws, with their rubber washer, over the windshield. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	Torx 25 Socket 8 mm Torque wrench 2 ± 0.3 Nm (18 ± 3 in-lb) 3 ± 0.5 Nm (27 ± 4 in-lb)

15

Install the lower mattress/work station cushions to the vehicle.

8554-03-02-05 Headliner, Replacement (Front Upper)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

VN660

Removal

1
Begin by removing the front lower headliner, see “Headliner, Replacement (Front Lower)” page 55.

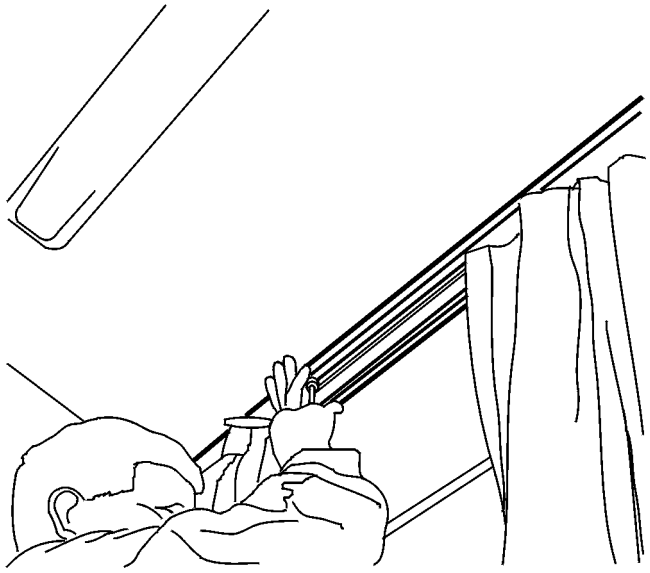
2

Remove the upper right bunk storage cabinet as follows: Remove the 4 wall mounting bolts. Remove the bolt and spacer between the upper and lower cabinet. Unplug the power supply connector and remove the cabinet from the vehicle.	Torx 40 Socket 10 mm

3

Remove the upper left bunk storage cabinet by removing the 4 wall mounting bolts. Remove the cabinet from the vehicle.	Torx 40

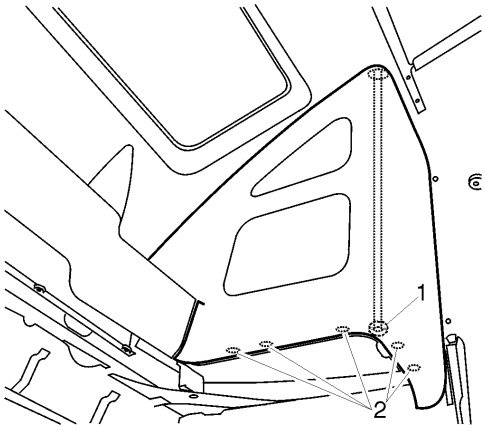
4



W8002490

Remove the bunk curtain rail assembly.	Torx 25

5



W8002512

Remove the right front overhead storage compartment as follows: Remove the 3 bezel net screws to the center overhead storage compartment. Disconnect any electrical components if equipped. Remove the rear support rod (1). Remove the 5 bottom mounting screws (2). Carefully work the compartment out of its mounting location, back and around the bunk headliner/trim. Remove it from the vehicle.	Socket 13 mm Torx 20

6
Remove the left front overhead storage compartment as follows:
Remove the bezel net screws to the center overhead storage compartment.
Remove the rear support rod. Remove the bottom mounting screws.
Carefully work the compartment out of its mounting location, back and around the bunk headliner/trim. Remove it from the vehicle.

Socket 13 mm
Torx 20

7
Disengage the 2 Christmas tree fasteners on both the right and left center bunk trim panels directly behind the front overhead storage compartment mounting shelf. This will allow the shelf to be moved rearward and permit removal of the skylight headliner.

8
Remove the center front overhead storage compartment mounts as follows:
Remove the 2 support rods. Remove the bottom mounting bolts.
Remove the top front and side mounting bolts.
Slide the mounting shelf rearward enough to allow removal of the skylight headliner.

Socket 13 mm
Torx 20
Torx 40

9
Remove the 1 front and the 2 rear Christmas tree fasteners in the skylight headliner.

J-38778

10
Carefully work the skylight headliner out from under the bunk headliner and out of its mounting location. Remove it from the vehicle.

Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

Installation

1
Install the replacement headliner into its mounting location. Secure with the 3 Christmas tree fasteners.

Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

2
Slide the front overhead storage compartment mounting shelf forward into its mounting position.
Secure the bottom front, top front and side mounting bolts.
Install and secure the 2 support rods.
Torque both bolts and rods to 24 ± 4 Nm (18 ± 3 ft-lb).

Socket 13 mm
Torx 20
Torx 40
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)

3
Engage the 2 Christmas tree fasteners on both the right and left center bunk trim panels.

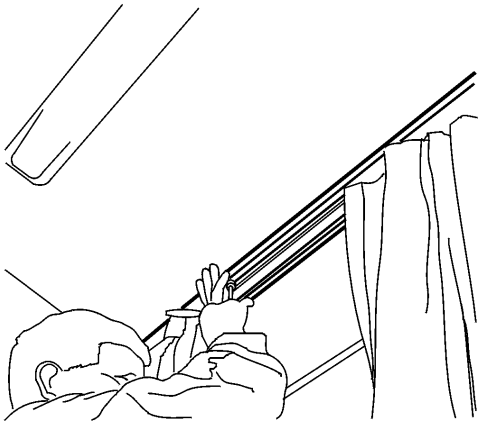
4
Install the left front overhead storage compartment as follows:
Install the compartment into the vehicle and carefully work the compartment into its mounting location.
Secure the bottom mounting screws.
Install the rear support rod. Torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Secure the bezel net screws to the center overhead storage compartment.

Socket 13 mm
Torx 20
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)

5
Install the right front overhead compartment as follows:
Install the compartment into the vehicle and carefully work the compartment into its mounting location.
Secure the bottom mounting screws.
Install the rear support rod. Torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Secure the bezel net screws to the center overhead storage compartment.
Connect any electrical components if equipped.

Socket 13 mm
Torx 20
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)

6



W8002490

Install the bunk curtain rail assembly. Torque to 5 ±1 Nm (44 ± 9 in-lb).	Torx 25 5 ±1 Nm (44 ± 9 in-lb)

7

Install the upper right bunk storage cabinet as follows: Lift the cabinet into position and insert the power supply wiring and coaxial cable. Fit the cabinet over the HVAC duct at the rear of the cabinet. Install the 4 wall mounting bolts and torque to 68 ± 7 Nm (50 ± 5 ft-lb). Install the through bolt and spacer between the upper and lower cabinet. Torque to 12 ± 2 Nm (9 ± 1.5 ft-lb).	Torx 40 Socket 10 mm Torque wrench 68 ± 7 Nm (50 ± 5 ft-lb) 12 ± 2 Nm (9 ± 1.5 ft-lb)

8

Install the upper left bunk storage cabinet as follows: Lift the cabinet in place and install the 4 mounting bolts. Torque to 68 ± 7 Nm (50 ± 5 ft-lb).	Torx 40 Torque wrench 68 ± 7 Nm (50 ± 5 ft-lb)

9

Complete this procedure by installing the front lower headliner, see “Headliner, Replacement (Front Lower)” page 55.

8554-03-02-05 Headliner, Replacement (Front Upper)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

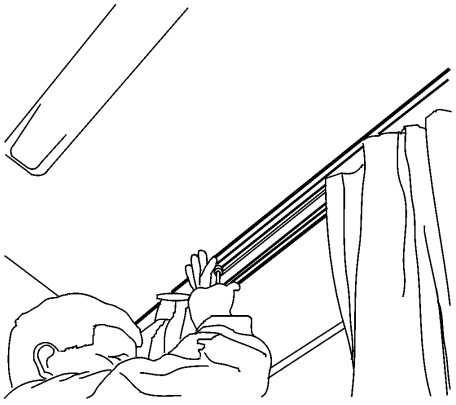
VN770

Removal

1
Begin by removing the lower front headliner, see “Headliner, Replacement (Front Lower)” page 55.

2
Remove the lower mattress/work station cushions from the vehicle.

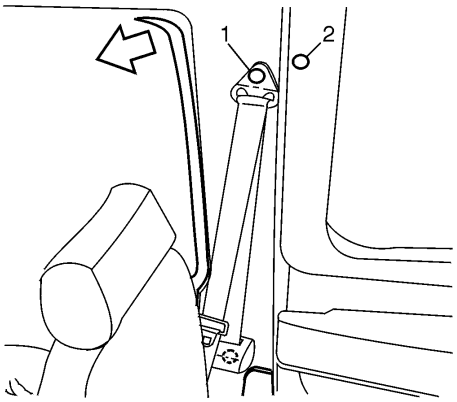
3



W8002490

Remove the bunk curtain rail assembly. Torx 25

4



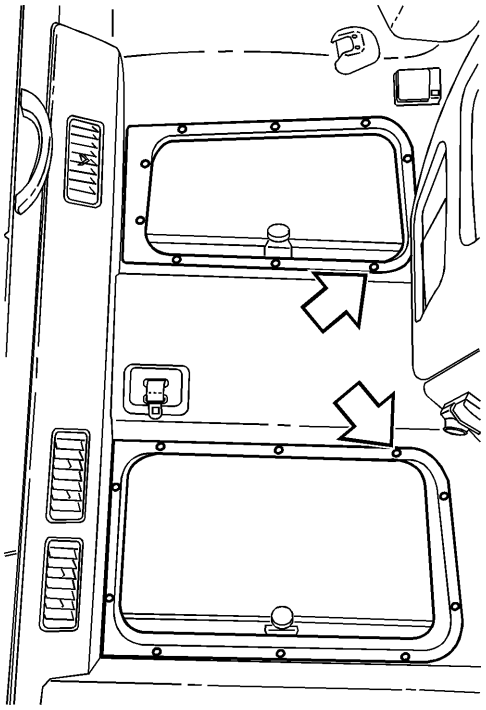
W8002491

Remove both (right and left) seat belt shoulder harnesses mounting bolts. J-38778 Torx 50
Pull back the upper rear of the door seal to loose the B pillar trim.
Gently pull back the B pillar trim and remove the Christmas tree fastener to the upper tower cabinets.

Note: Use caution not to crease the trim panel.

5
Remove the ladder assembly (if equipped). Torx 30

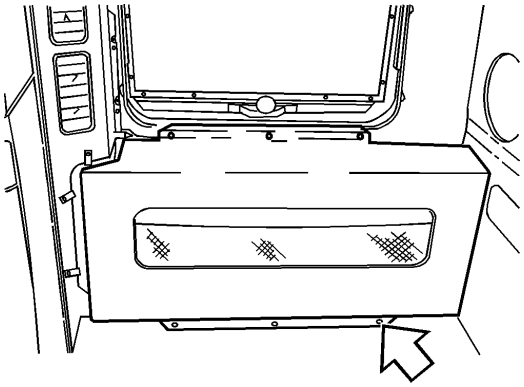
6



W8002176

Remove the 4 bunk window trim bezels. Phillips screwdriver

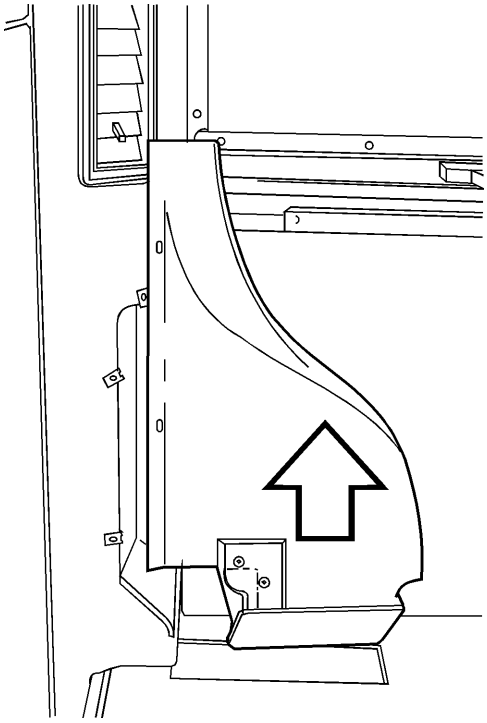
7



W8002177

Remove the cabinet below the lower right bunk by removing the 3 torx bolts. Torx 25

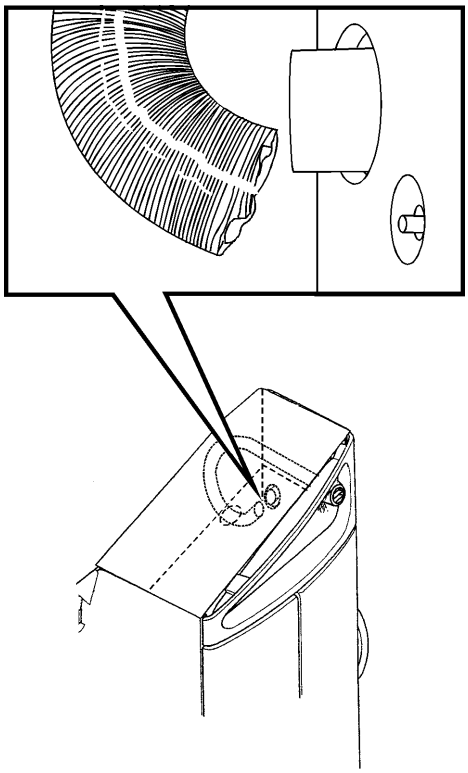
8



W8002178

Remove the duct from the bunk HVAC unit to the right bunk fascia panel. Torx 25

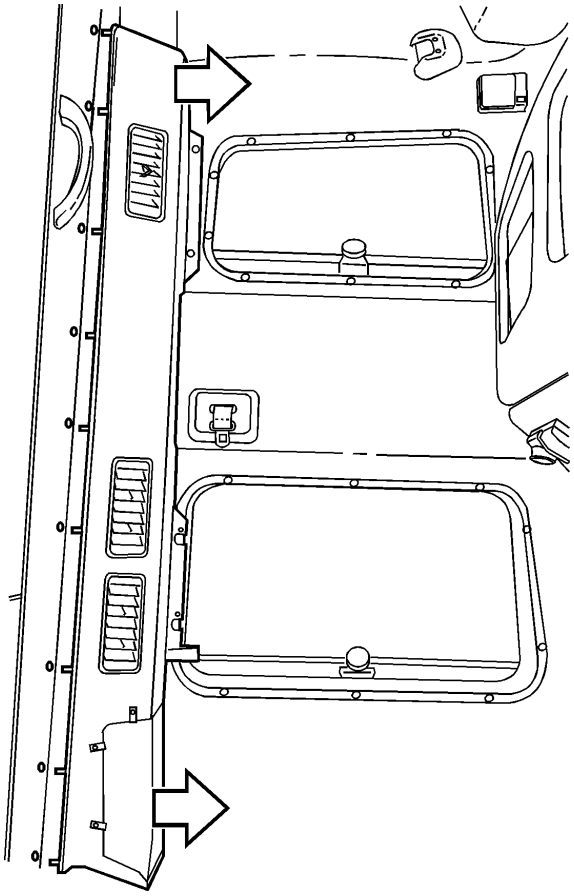
9



W8002180

Remove the duct hose in the upper right tower cabinet from the right bunk fascia panel. Torx 25

10

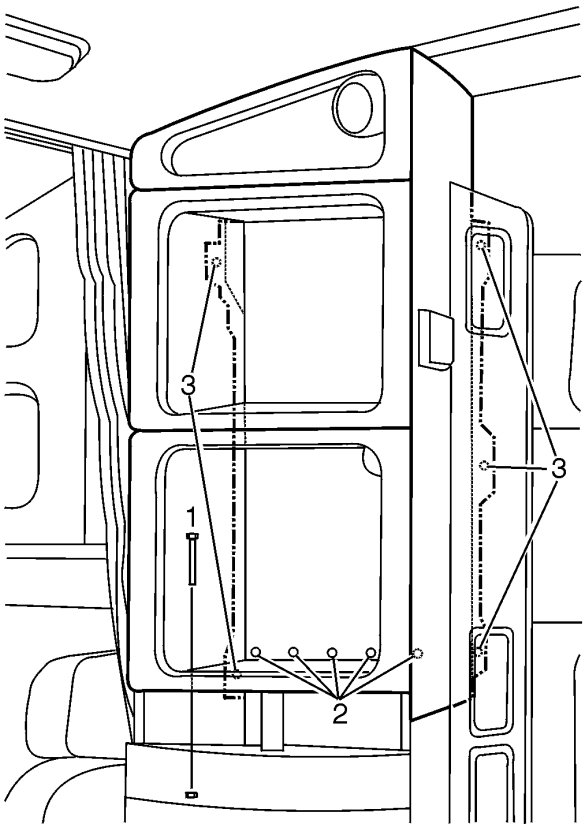


W8002179

Remove the right bunk fascia panel as follows:
Pull back the lower right trim panel to expose the lower mounting screws. The panel is secured with Christmas tree and/or interlock fasteners.
Remove the 2 lower mounting screws and the 3 screws along the top.
Remove the 8 nuts securing the panel to the right tower cabinet.
Pull the fascia out from the top to clear the bottom stud.

J-38778
Torx 25
Socket 11 mm

11



W8002492

Remove the upper right tower cabinet as follows:
Remove any objects stored in the cabinet and unplug the power supply connectors.
Remove the 5 bolts from the rear bottom wall (2). Remove the 6 bolts between the upper and lower cabinet (1).
Pull the upper front trim panel back to expose the upper front wall mounting bolt. Remove the bracket from the cabinet that holds the interlock fastener.
Pull back the B pillar trim to expose the lower front wall mounting bolt. Remove the 5 wall mounting bolts (3).

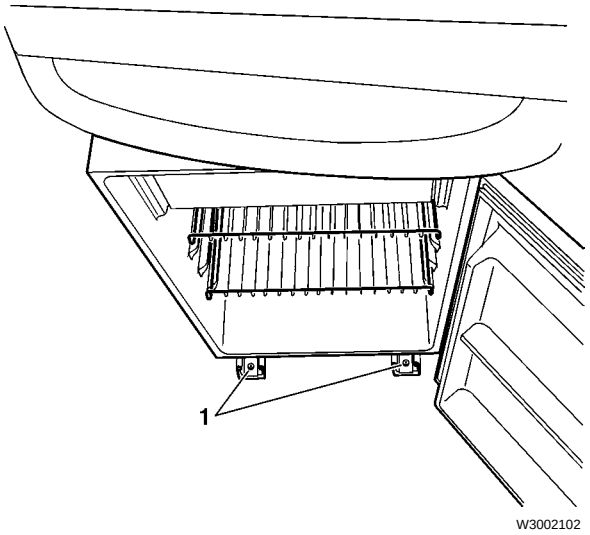
Torx 40
Torx 30
Torx 20
Socket 12 mm
Socket 13 mm

12

Remove the upper right tower cabinet from its mounting location and out of the vehicle.

Note: This step requires 2 people.

13



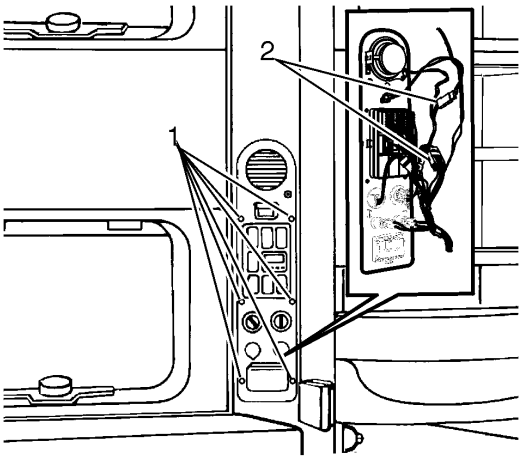
W3002102

Remove the refrigerator (if equipped) as follows: Open the door and remove the 2 mounting bolts (1). Remove both mounting strips. Slide the refrigerator forward until it comes away from the stationary tracks and unplug the 12 volt connector.	Torx 30

14

Remove the left tower cabinet drawer stops. Remove the sink plumbing and electrical connectors (if equipped). Remove the drawer.	Torx 20 Socket 7 mm Slotted screwdriver

15



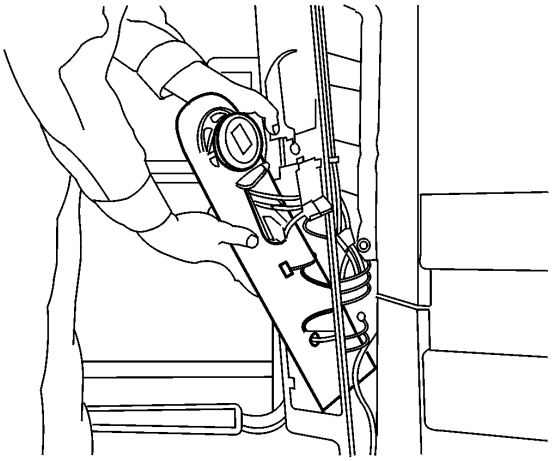
W8002493

Remove the bunk master control panel from the left bunk fascia panel by removing the 6 screws (1). Disconnect the 2 top connectors (2) and allow the control panel to hang from the wiring.	Phillips screwdriver

16

Pull back the lower left trim panel to expose the lower left bunk fascia panel mounting screws. The panel is secured with Christmas tree and/or interlocking fasteners.	J-38778

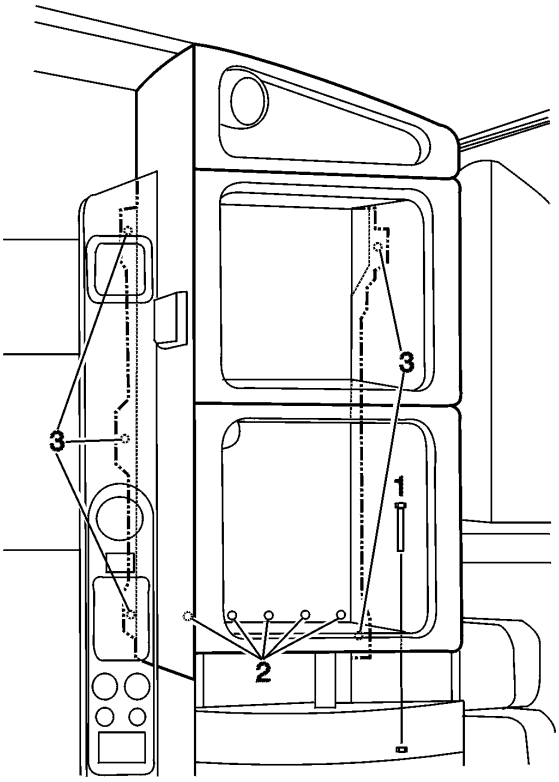
17



W8002494

Remove the screws securing the left bunk fascia panel to the wall and the nuts securing the panel to the left tower cabinet and remove the fascia panel from its mounting location. Turn the bunk master control panel to fit through the cut out in the fascia panel and remove the panel from the vehicle.	Torx 25 Socket 11 mm

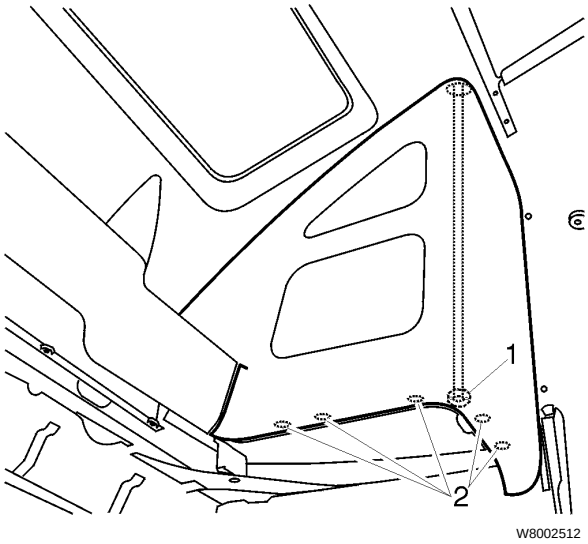
18



W8002495

Remove the upper left tower cabinet as follows: Unplug the power supply connectors. Remove the 5 bolts from the rear bottom wall (2) and the 6 bolts between the upper and lower cabinet (1).	Torx 40 Torx 30 Torx 20 Socket 12 mm Socket 13 m Phillips screwdriver
Note: The lower cabinet door hinges may need to be temporarily removed to remove the 2 front bolts. Re-install hinges before removing the cabinet.	
Pull the upper front trim panel back to expose the upper front wall mounting bolt. Remove the bracket from cabinet that holds the interlock fastener. Pull back the B pillar trim to expose the lower front wall mounting bolt. Remove the 5 wall mounting bolts (3). Remove the cabinet out of the vehicle.	
Note: This step requires 2 people.	

19



W8002512

Remove the right front overhead storage compartment as follows: Remove the bezel net screws to the center overhead storage compartment. Disconnect any electrical components (if equipped). Remove the rear support rod (1). Remove the bottom mounting screws (2). Carefully work the compartment out of its mounting location, back and around the bunk headliner/trim. Remove it from the vehicle.	Socket 13 mm Torx 20 mm
20	
Remove the left front overhead storage compartment as follows: Remove the bezel net screws to the center overhead storage compartment. Remove the rear support rod. Remove the bottom mounting screws. Carefully work the compartment out of its mounting location, back and around the bunk headliner/trim. Remove it from the vehicle.	Socket 13 mm Torx 20 mm
21	
Remove the 2 “shark fin” dividers from the center compartment shelf as follows: Remove the 2 support rods, tube and bracket assemblies. Pull back the carpet at each divider enough to access the mounting screws. Remove the screws and remove the dividers.	Socket 13 mm Torx 20 mm Torx 15

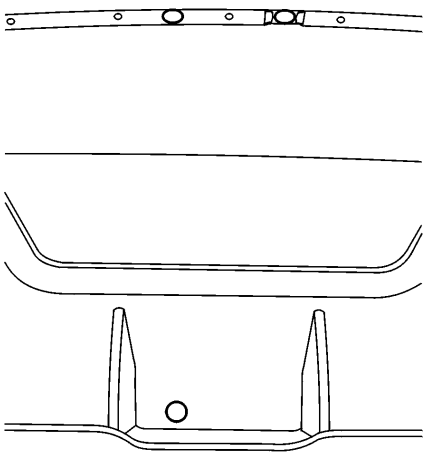
22

Remove the 1 front and 2 rear Christmas tree fasteners in the skylight headliner.
Carefully work the skylight headliner out from under the bunk headliner and out of its mounting location. Remove it from the vehicle.

J-38778

Installation

1



W8002516

Install the replacement skylight headliner into its mounting location. Secure with the 3 Christmas tree fasteners.

Note: Use caution not to bend the headliner to the point at which a permanent crease will show in the material.

2

Install the 2 “shark fin” dividers to the center compartment shelf as follows:
Place the dividers in their mounting location. Secure the mounting screws and re-position the carpet.
Install the 2 support rods, tubes and bracket assemblies. Torque the rods to 24 ± 4 Nm (18 ± 3 ft-lb).

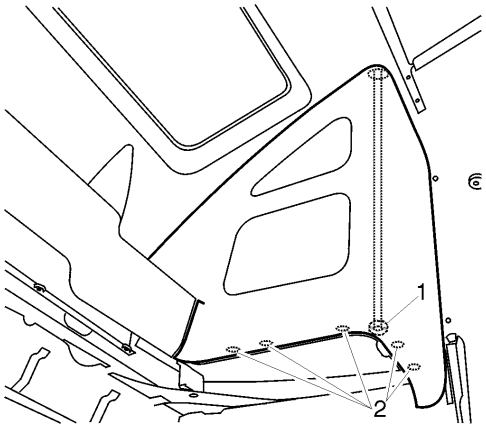
Socket 13 mm
Torx 20
Torx 15
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)

3

Install the left front overhead storage compartment as follows:
Install the compartment into the vehicle and carefully work the compartment into its mounting location.
Torque the 5 bottom mounting screws.
Install the rear support rod and torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Secure the bezel net screws to the center overhead storage compartment.

Socket 13 mm
Torx 20
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)

4



W8002512

Install the right front overhead storage compartment as follows:
Install the compartment into the vehicle and carefully work the compartment into its mounting location.
Torque the 5 bottom mounting screws (2).
Install the rear support rod (1) and torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Secure the bezel net screws to the center overhead storage compartment.
Connect any electrical components (if equipped).

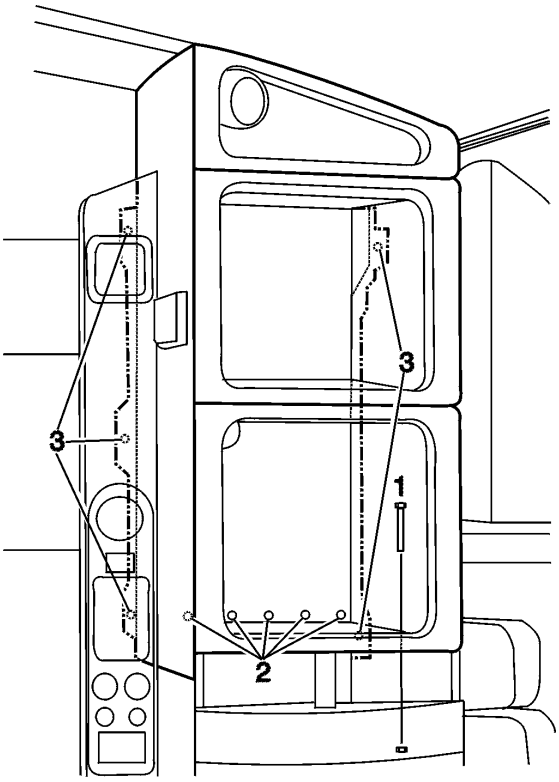
Socket 13 mm
Torx 20
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)

5

Position the upper left tower cabinet into its mounting location. Work the cabinet around the trim panels and pull the wiring through the cabinet as necessary.

Note: This step requires 2 people.

6



W8002495

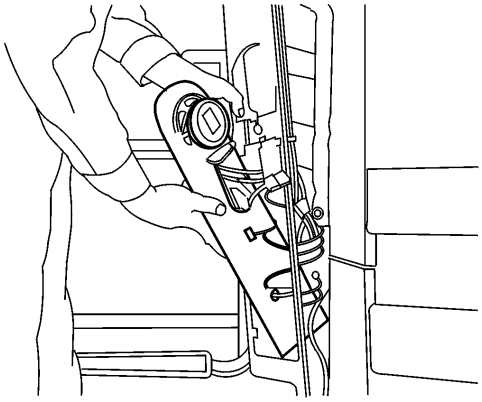
Install the upper left tower cabinet as follows:
Start all cabinet mounting bolts before beginning tightening them.
Install the 5 wall mounting bolts (2) and torque to 24 ± 4 Nm (18 ± 3 ft-lb).
Install the 6 bolts between the upper and lower cabinet (1) and torque to 24 ± 4 Nm (18 ± 3 ft-lb).

Note: The lower cabinet door hinges may need to be temporarily removed to install the 2 front bolts. Re-install hinges after the bolts between the upper and lower cabinet have been tightened.
Install the 5 bolts to the rear bottom wall and torque to 10 ± 1.5 Nm (89 ± 13 in-lb).

Torque all cabinet mounting bolts.
Install the bracket that holds the interlock fastener to the cabinet. Secure the upper front trim panel with the interlock fastener.
Connect the power supply connectors.

Torx 40
Torx 30
Torx 20
Socket 12 mm
Socket 13 mm
Phillips screwdriver
Torque wrench
24 ± 4 Nm
(18 ± 3 ft-lb)
24 ± 4 Nm
(18 ± 3 ft-lb)
10 ± 1.5 Nm
(89 ± 13 in-lb)

7



W8002494

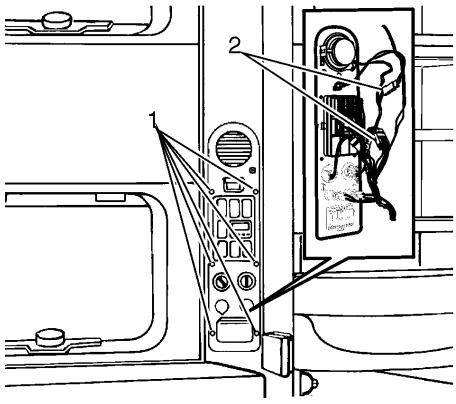
Fit the bunk master control panel through the cut out in the left bunk fascia panel.
Position the left bunk fascia panel into its mounting location. Secure the panel to the tower cabinets with the plastic stud nuts. Secure the panel to the wall with screws. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Socket 11 mm
Torque wrench
3 ± 0.5 Nm
(27 ± 4 in-lb)

8

Secure the lower left trim with Christmas tree and/or interlock fasteners.

9



W8002493

Connect the bunk master control panel connectors (2) and install the control panel into the left bunk fascia panel with its 6 screws (1).

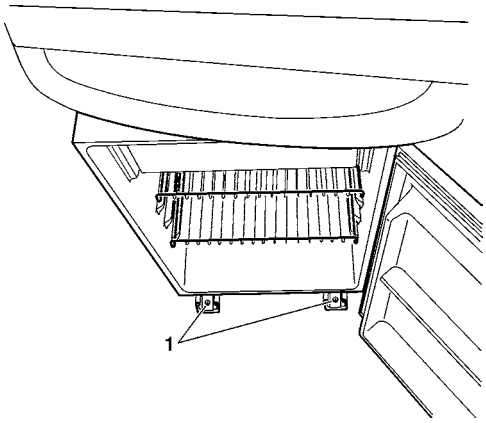
Phillips screwdriver

10

Install the left lower cabinet drawer.
Connect the sink plumbing and electrical connectors (if equipped).
Install the drawer stops.

Torx 20
Socket 7 mm
Slotted screwdriver

11



W3002102

Install refrigerator (if equipped) as follows:
Position the refrigerator in the floor mounting rails and connect the 12 volt connector.
Slide the refrigerator as far back on the tracks as possible. Open the refrigerator door and install the mounting strips (1). Torque to 13 ± 2 Nm (10 ± 1.5 ft-lb).

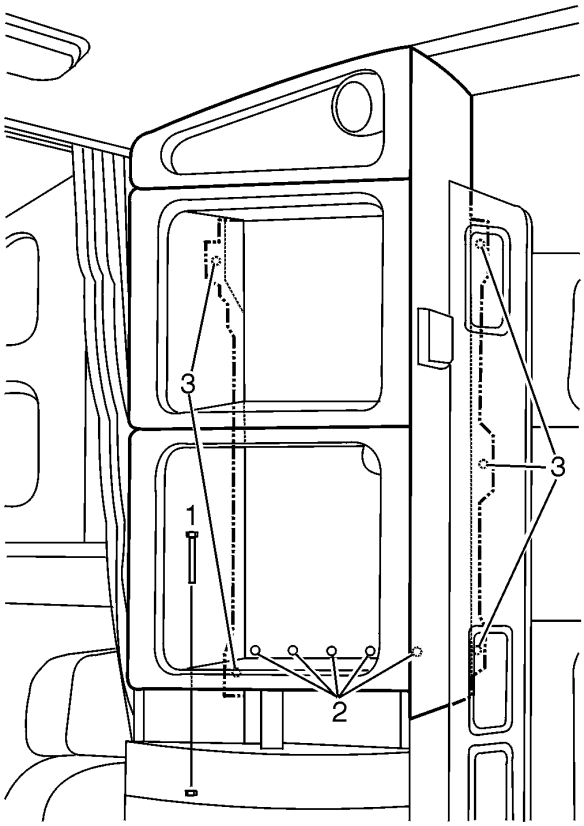
Torx 30
Torque wrench
13 ± 2 Nm
(10 ± 1.5 ft-lb)

12

Install the upper right tower cabinet as follows:
Position the cabinet into its mounting location.
Work the cabinet around trim panels and pull the wiring through the cabinet as necessary.

Note: This step requires 2 people.

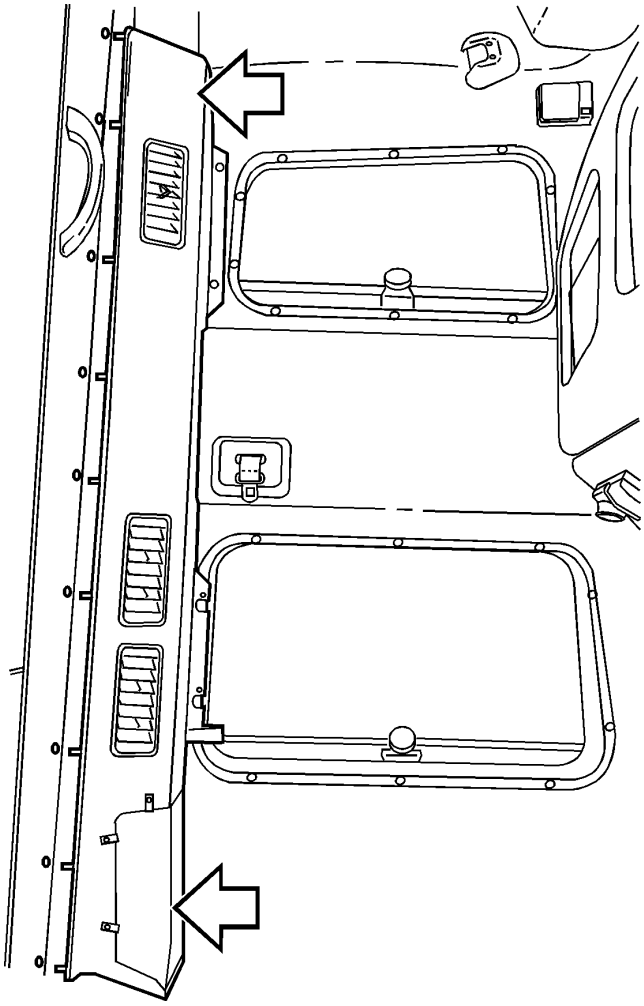
13



W8002492

Install the upper right tower cabinet as follows: Start all mounting bolts in the cabinet before beginning tightening. Install the 5 wall mounting bolts (3) and the 6 bolts between the upper and lower cabinet (1). Torque to 24 ± 4 Nm (18 ± 3 ft-lb). Install the 5 bolts to the rear bottom wall (2) and torque to 10 ± 1.5 Nm (89 ± 13 in-lb). Torque all cabinet mounting bolts. Install the bracket that holds the interlock fastener to the cabinet. Secure the upper front trim panel with the interlock fasteners. Connect the power supply connectors.	Torx 40 Torx 30 Torx20 Socket 12 mm Socket 13 mm Phillips screwdriver Torque wrench 24 ± 4 Nm (18 ± 3 ft-lb) 24 ± 4 Nm (18 ± 3 ft-lb) 10 ± 1.5 Nm (89 ± 13 in-lb)

14



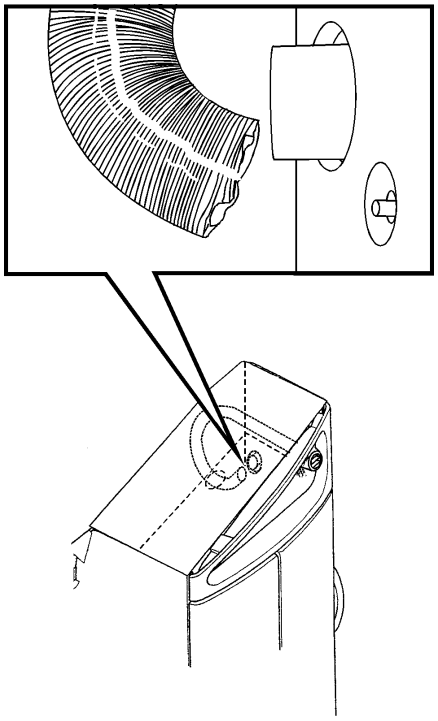
W8002182

Position the right bunk fascia panel into its mounting location. Secure the panel to the tower cabinets with the plastic stud nuts. Secure the panel to the wall with the 5 torx screws. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).	Torx 25 Socket 11 mm Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

15

Secure the lower right trim with Christmas thee and/or interlocking fasteners.

16

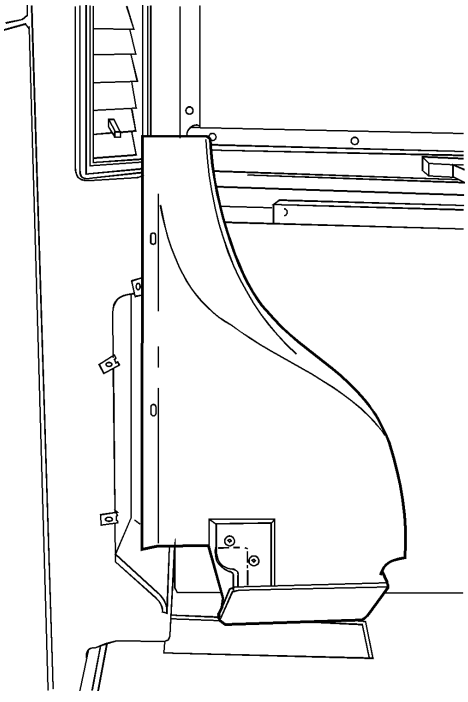


W8002180

Secure the duct hose in the upper right tower cabinet from the right bunk fascia panel.

Torx 25

17

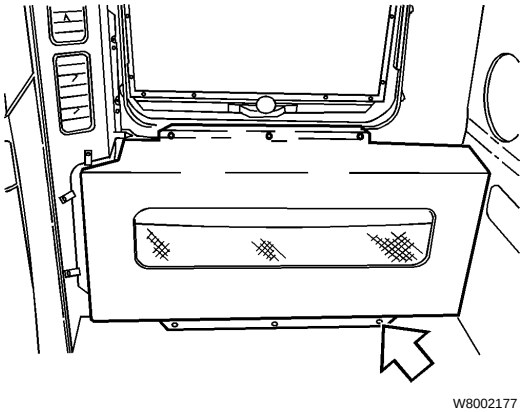


W8002183

Install the duct from the bunk HVAC unit to the right bunk fascia panel. Install the 6 torx screws holding the ducting to the fascia panel. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

18

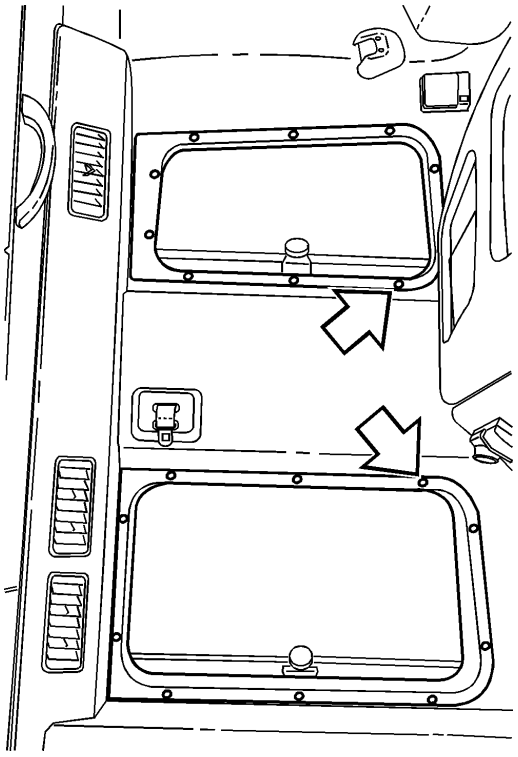


W8002177

Install the cabinet below the lower right bunk window. Torque the 3 screws in the bottom of the cabinet to 3 ± 0.5 Nm (27 ± 4 in-lb).

Torx 25
Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

19



W8002176

Install the 4 bunk window trim bezels. Torque to 3 ± 0.5 Nm (27 ± 4 in-lb).

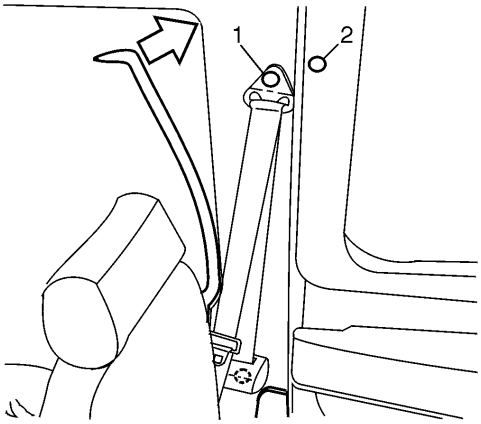
Phillips screwdriver
Torque wrench 3 ± 0.5 Nm (27 ± 4 in-lb)

20

Install bunk ladder assembly (if equipped). Torque to 10 ± 1.5 Nm (7 ± 1 ft-lb).

Torx 30
Torque wrench 10 ± 1.5 Nm (7 ± 1 ft-lb)

21



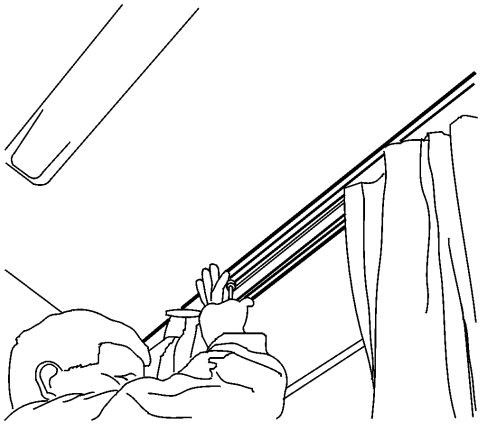
W8002501

Install both right and left B pillar trims. Secure the B pillar trim to the upper tower cabinets with the Christmas tree fasteners. Properly position the B pillar trim and reinstall the door seal to secure.
Install the seat belt shoulder harness mounting bolt. Torque to 68 ± 7 Nm (50 ± 5 ft-lb).

Torx 50
Torque wrench
68 ± 7 Nm
(50 ± 5 ft-lb)

Note: Use caution not to crease the trim panel.

22


W8002490

Install the sleeper curtain rail assembly. Torque to 5 ± 1 Nm (44 ± 9 in-lb).

Torx 25
Torque wrench
5 ± 1 Nm
(44 ± 9 in-lb)

23
Complete this procedure by installing the front lower headliner, see “Headliner, Replacement (Front Lower)” page 55.

8521-03-02-01
Seat, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

Standard Seat

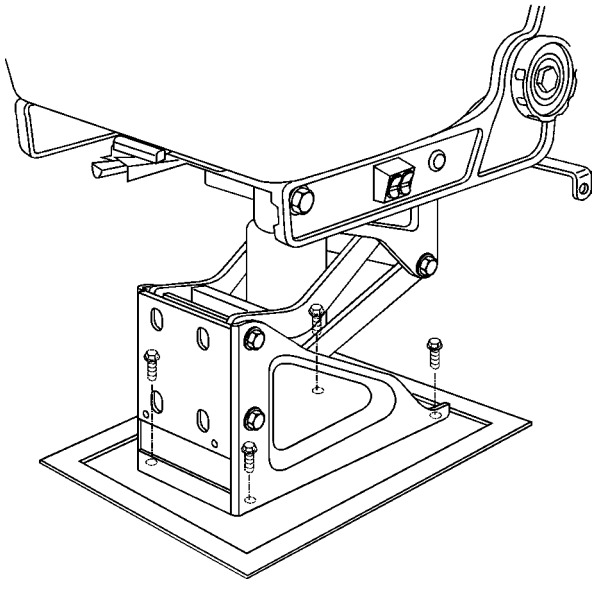
Removal

1
Empty the air supply line by opening drain cock on the B-system tank until the pressure is low enough that the pressure protection valve closes. Empty the supply air line to the seat by raising and lowering the seat. Disconnect the air line from the seat.

2
Remove the bolts holding the seat tethers and safety belt to the seat on one side and the seat tether on the other side.

16 mm socket

3



W8001407

Remove suspension cover bellows, if equipped. Remove the four bolts holding the seat to the floor.

14 mm socket

4

WARNING

The seat is heavy! Do not attempt to lift seat out single-handed. Use a second person or other lifting device. Failure to follow this procedure may result in personal injury.

Lift seat out of the cab.

Installation

1

WARNING

The seat is heavy! Do not attempt to lift seat up into the cab single-handed. Use a second person or other lifting device. Failure to follow this procedure may result in personal injury.

Lift seat into cab and place it over the bolt holes.

2
Install the four bolts holding the seat to the floor. Tighten the bolts to a torque of 48 ± 8 Nm (35 ± 6 ft-lb).

14 mm socket
Torque wrench
48 ± 8 Nm
(35 ± 6 ft-lb)

3
Install the safety belt and tethers to the seat. Tighten to a torque of 70 ± 6 Nm (50 ± 5 ft-lb).

16 mm socket
Torque wrench
70 ± 6 Nm
(50 ± 5 ft-lb)

4
Connect the air line to the fitting. Fill the air tanks and let the seat air spring lift the seat up.

Volvo Seat

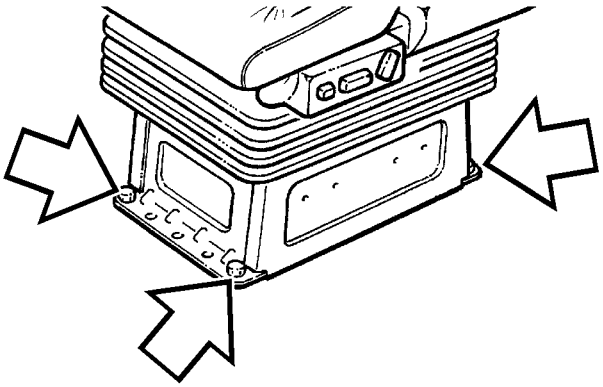
Removal

1
Empty the air supply line by opening drain cock on the B-system tank. Empty the supply line by operating the seat height button. Disconnect air line from the seat. Disconnect the wire connectors.

2
Remove the bolts for the safety belt D-loop and belt retractor from the B-pillar. Lay the safety belt on the seat cushion.

16 mm socket

3



W8001397

Remove the five bolts holding the seat to the floor.

14 mm socket

4

⚠ WARNING

The seat is very heavy! Do not attempt to lift seat out single-handed. Use a second person or other lifting device. Failure to follow this procedure may result in personal injury.

Lift seat out of the cab.

Installation

1

⚠ WARNING

The seat is very heavy! Do not attempt to lift seat up into the cab single-handed. Use a second person or other lifting device. Failure to follow this procedure may result in personal injury.

Lift seat into cab and place it over the bolt holes.

2
Install the five bolts holding the seat to the floor. Tighten the bolts to a torque of 48 ± 8 Nm (35 ± 6 ft-lb).

14 mm socket
Torque wrench
48 ± 8 Nm
(35 ± 6 ft-lb)

3
Install the safety D-loop and belt retractor to the B-pillar. Tighten the bolts to a torque of 50 ± 8 Nm (37 ± 3 ft-lb).

Torx 40
Torque wrench
50 ± 8 Nm
(37 ± 3 ft-lb)

4
Push the wire connectors together. Connect the air line to the fitting. Fill the air tanks and let the seat air spring lift the seat up.

Seat, Overhaul

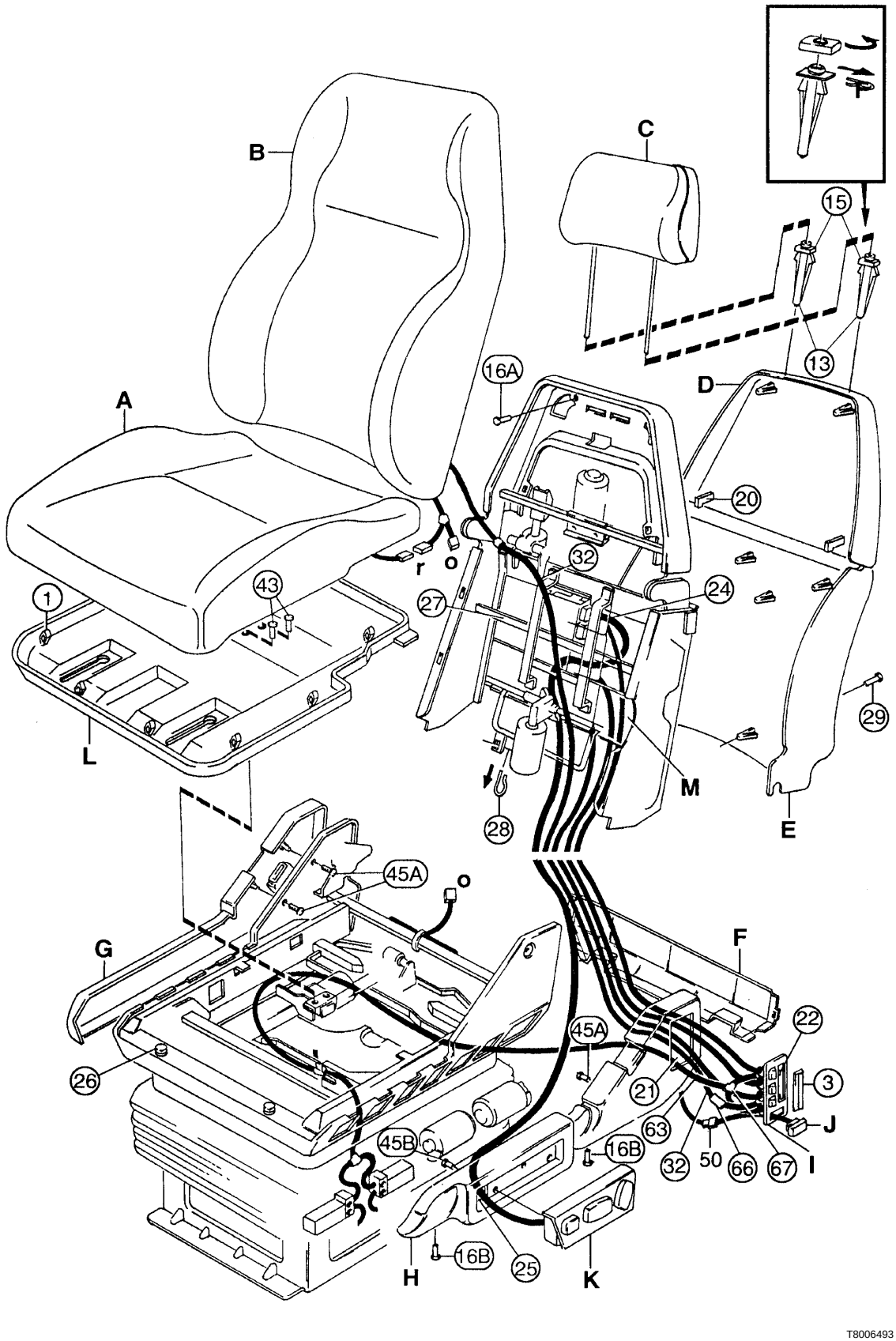


Fig. 1: Seat, Exploded View

Call-out	Description
A	Seat Cushion
B	Seat Backrest Cushion
C	Seat Headrest
D	Seat Backrest Cover (Upper)
E	Seat Backrest Cover (Lower)
F	Seat Frame Cover (Rear)
G	Seat Frame Cover (Right Side)
H	Seat Frame Cover (Left Side)
I	Seat Compressed Air Valve
J	Seat Heater Switch
K	Seat Adjustment Switch Panel
L	Seat Cushion Base
M	Seat Backrest Air Cushion
r, o	Heating Element Connectors
3	Control Button
13	Headrest Guides
15	Cover Washer
16A	Inside Cover Screws
16B	Frame Cover Screws
20	Catches
22	Clamping Hooks
24	Relay Box Connector
25	Seat Frame Hole
27	Air Cushion Holder Stay
28	Lockring Clips
29	Outside Cover Screws
32	Rubber Hose
45A	Frame Cover Screws
45B	Switch Panel Screws
43	Seat Cushion Base Screws
50	Heater Switch Connector

See the following for procedures on the Volvo seat:

“Seat Cushion, Replacement” page 77

“Seat Backrest Cushion, Replacement” page 77

“Seat Headrest, Replacement” page 77

“Seat Backrest Cover, Replacement (Upper)” page 77

“Seat Backrest Cover, Replacement (Lower)” page 78

“Seat Frame Cover, Replacement (Rear)” page 78

“Seat Frame Cover, Replacement (Right Side)” page 78

“Seat Frame Cover, Replacement (Left Side)” page 79

“Seat Compressed Air Valve, Replacement” page 79

“Seat Heater Switch, Replacement” page 79

“Seat Adjustment Switch Panel, Replacement” page 80

“Seat Cushion Base, Replacement” page 80

“Seat Backrest Air Cushion, Replacement” page 80

“Seat Control Harness, Replacement” page 81

“Seat Motor, Replacement (Cushion Position)” page 83

“Seat Motor, Replacement (Seat Positioning)” page 84

“Seat Motor, Replacement (Cushion Tilt)” page 85

“Seat Electro-Pneumatic Height Control Valve, Replacement” page 86

“Seat Motor, Replacement (Backrest Tilt)” page 87

“Seat Motor, Replacement (Upper Backrest Tilt)” page 88

“Seat Control Unit, Replacement” page 88

“Seat Height Control Cylinder, Replacement” page 89

“Seat Height Setting Guide Plate, Replacement” page 90

“Seat Height Guide Disc Unit, Replacement” page 91

“Seat Height Level Control Valve, Replacement” page 93

“Seat Height Two-Way Valve, Replacement” page 94

“Seat Cam Disc, Replacement” page 95

“Seat Cam Disc Cable, Replacement” page 96

“Seat Air Spring, Replacement” page 97

“Seat Vertical Shock Absorber, Replacement” page 98

8523-03-02-01 Seat Cushion, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(A)**

1
Pull the seat cushion out of the clamps (1). Disconnect the connector (r) for the seat cushion heating element.

2
Install the cushion in the reverse order of removal. Test seat for function.

8524-03-02-01 Seat Backrest Cushion, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(B)**

1
Pull the backrest cushion off from the backrest frame. Remove the backrest covers, see D and E. Remove the lockring clips (28) for the cushion clamps. (See illustration)

2
Disconnect the connectors (r) and (o) for the seat cushion and backrest cushion heater elements. Separate the rubber hose (32) at the connection.

3
Install the backrest in the reverse order of removal. Test seat for function.

8529-03-02-01 Seat Headrest, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(C)**

1
Pull up the head rest to its stop position. Turn the cover washer (15) counter-clockwise and remove the head rest by pulling it up. (See illustration)

2
Install the headrest in the reverse order of removal. Test seat for function.

8524-03-02-03 Seat Backrest Cover, Replacement (Upper)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(D)**

1
Pull off the backrest cushion (see B). Remove the head rest (see C). (See illustration)

2
Compress the lower part of the guides (13) for the head rest, push them up and remove them. If the backrest cushion is locked behind the backrest frame, the guides must be worked loose and pulled out. Remove screws (16A) and remove the cover.

Note: Take care not to damage the catches (20).

3
Install the cover in the reverse order of removal. Test seat for function.

8524-03-02-02 Seat Backrest Cover, Replacement (Lower)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(E)**

1
Pull off backrest cushion (see B) and upper cover (see D). Remove inside screws (16A) or remove outside screws (29) for cover. (See illustration)

2
Install the cover in the reverse order of removal. Test seat for function.

8522-03-02-01 Seat Frame Cover, Replacement (Rear)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(F)**

1
Move the seat to its rearmost position. Remove the seat frame left-hand cover (F) and the right-hand cover (G) and pull it out. (See illustration)

2
Install the cover in the reverse order of removal. Test seat for function.

8522-03-02-02 Seat Frame Cover, Replacement (Right Side)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(G)**

1
Pull off the seat cushion and backrest cushion (see A and B). Remove the two screws (45A) and the three screws (16B). (See illustration)

2
Install the cover in the reverse order of removal. Test seat for function.

8522-03-02-03 Seat Frame Cover, Replacement (Left Side)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(H)**

1
Pull off seat cushion and backrest cushion (see A and B). Press out control button (3). (See illustration)

2
Push valve unit clamping hooks (22) to the side and release control unit (I), push them through hole (21).

3
Remove the two screws (45A) and the three screws (16B). Remove the switch panel (K), (see K).

4
Install the cover in the reverse order of removal. Test seat for function.

8529-03-02-02 Seat Compressed Air Valve, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(I)**

1
Press out the control button (3). Press the valve unit clamping hooks (22) to the side and release the control unit (I). (See illustration)

2
Pull the three air cushion air hoses from the valve unit. Pull rubber hose (32) for side support cushions apart at connection (66). Remove rubber hose (63) from distribution pipe (67).

3
Press out the switch (J) and disconnect the connector (50).

4
Install the valve in the reverse order of removal. Test seat for function.

8526-03-02-01 Seat Heater Switch, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(J)**

1
Remove control button (3). Push valve unit clamping hooks (22) to the side. Remove control unit (I). Push switch (J) out and disconnect connector (50). (See illustration)

2
Install the switch in the reverse order of removal. Test seat for function.

8526-03-02-02
Seat Adjustment Switch Panel, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(K)**

1
Remove the seat frame left-hand cover. Remove the three screws (45B) and remove the switch panel (K). (See illustration)

2
Pull apart the connector (24) on the relay box. Pull apart the wire holders and pull the wire with the connector out of the seat frame and hole (25).

3
Install the panel in the reverse order of removal. Test seat for function.

8523-03-02-02
Seat Cushion Base, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(L)**

1
Remove the seat cushion (see A). Remove the screws (43). Pull the seat cushion base (L) forward. (See illustration)

2
Install the seat base in the reverse order of removal. Test seat for function.

8524-03-02-04
Seat Backrest Air Cushion, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See illustration Fig. 1: Seat, Exploded View, page 75, **(M)**

1
Remove backrest cushion (see B). Pull off the three rubber hoses from the air cushions connections. Unhook the air cushions holder from the stay (27). (See illustration)

2
Install the cushions in the reverse order of removal. Test seat for function.

8526-03-02-03
Seat Control Harness, Replacement

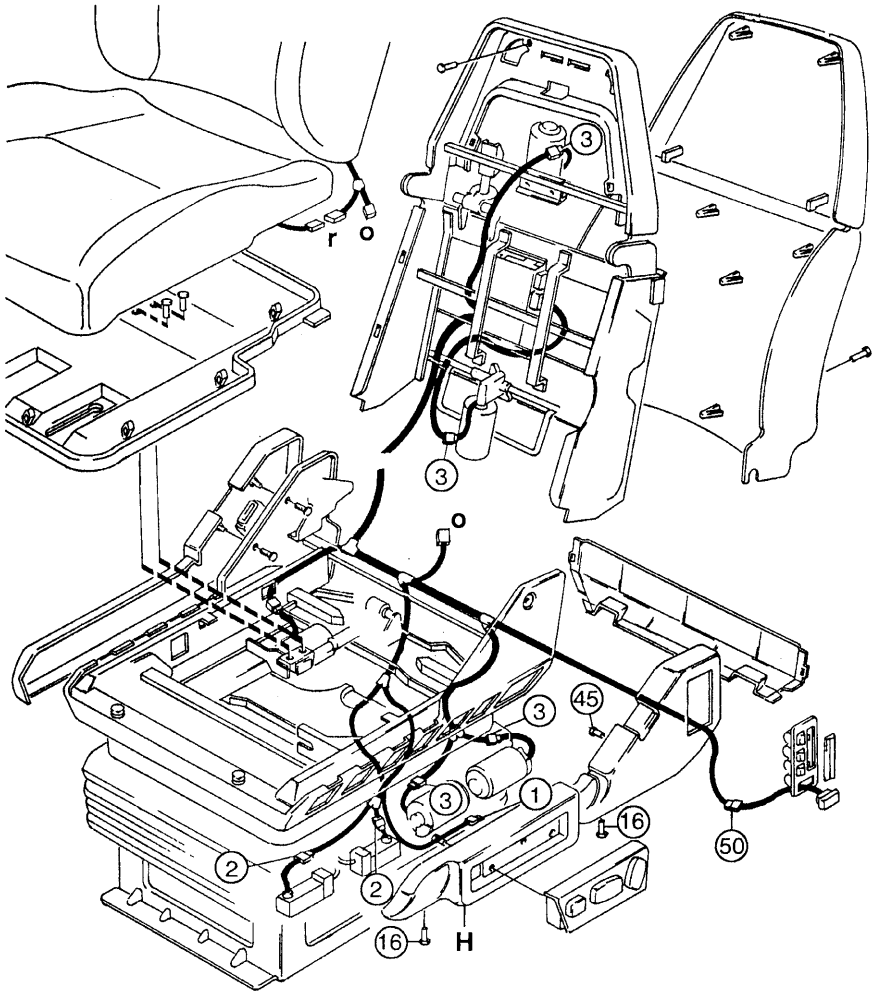


Fig. 2: Seat, Exploded View

H	Left Hand Cover
2	Solenoid Valve Connectors
3	Electric Motors Connectors
16, 45	Left Hand Coever Screws
50	Seat Heating Connector

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 2: Seat, Exploded View, page 81 **(A)**

1

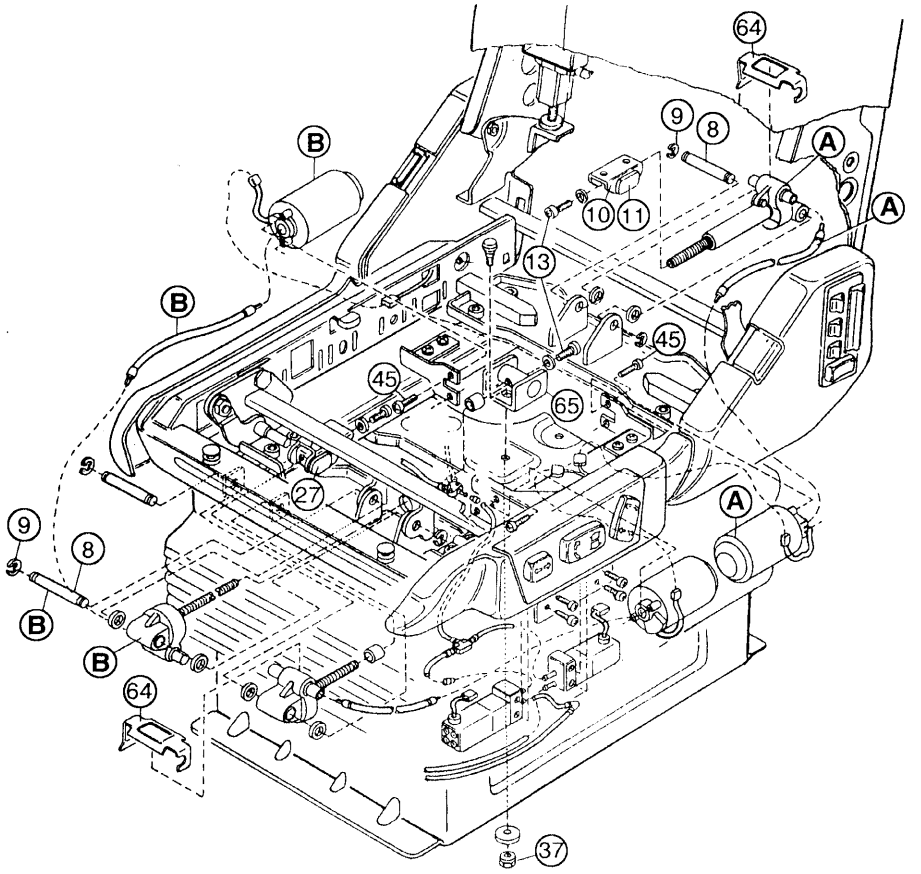
Note: Disconnect the batteries before doing any work on the seat.
If a defect is found in the wire harness, the complete harness must be replaced.
Block the seat in its upper position using a 150 mm (6 in.) extension between the frames. Disconnect connector (1).

2
Remove the seat cushion, seat cushion base and backrest cushion. Unscrew the five screws (16) and (45) for the seat frame left-hand cover (H). Pull apart connector (50) at the switch for the seat heating elements.

3
Remove the bellows from the front part of the upper frame on the control side and disconnect the solenoid valve connectors (2) and the remaining connectors (3) at the electric motors. Cut off the tie-straps and pull out the wire harness.

4
Install the new harness in the reverse order of removal. Test seat for function.

8526-03-02-08
Seat Motor, Replacement (Cushion Position)



T8006494

Fig. 3: Seat base, exploded view

8	Shaft	**27**	Spindle Nut
9	Lock Washer	**37**	Nut
10	Worm Gear Unit Attachment	**45**	Seat Motor Screws
11	Worm Gear Unit	**64**	Locking Plate
13	Worm Gear Unit Screw	**65**	Seat Motor Attachment

⚠ DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 3: Seat base, exploded view, page 83 **(A)**

1
Remove the seat cushion and seat cushion base. Disconnect the wire connectors at the motor.

2
Remove the screws (45), pull out the drive cable and lift out the motor.

3
Remove worm gear unit locking plate (64). Remove lock washer (9) and shaft (8). Remove the screw (13), then twist the worm gear unit and spindle nut (11) out of the attachment (10).

8526-03-02-07
Seat Motor, Replacement (Seat Positioning)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

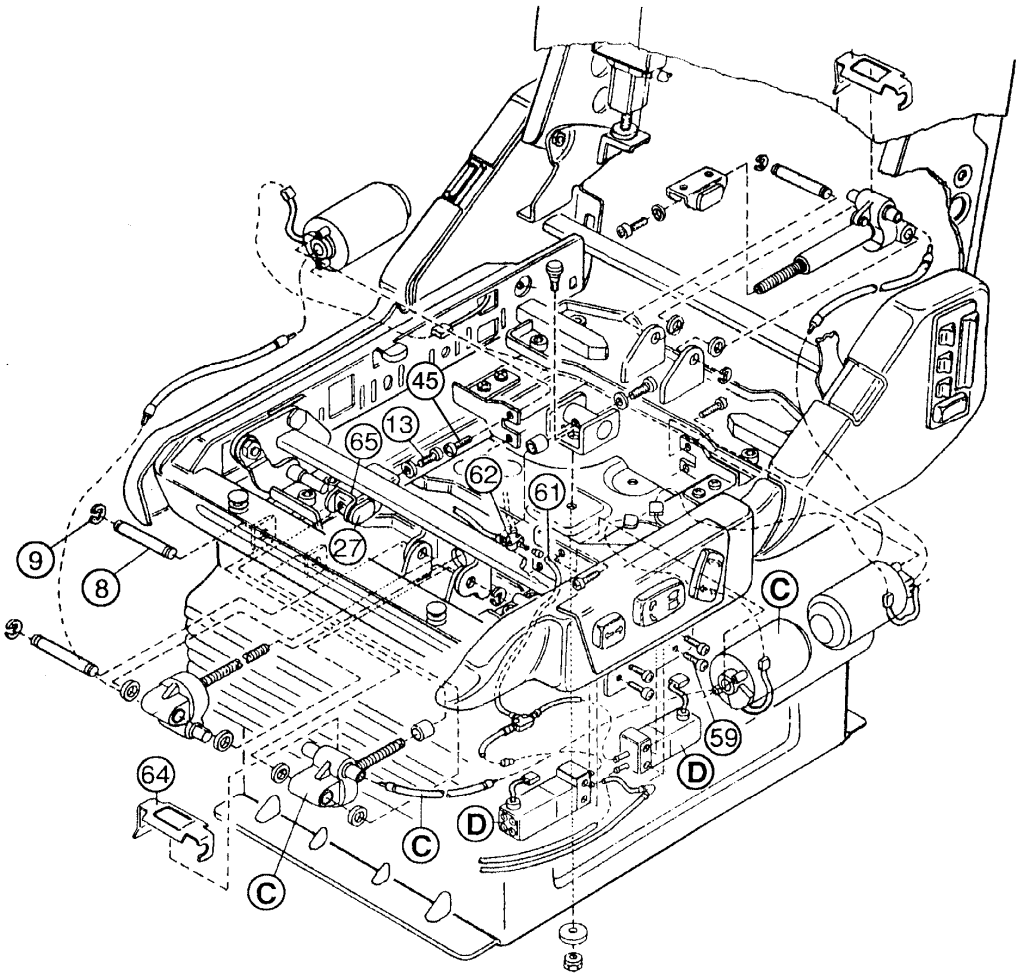
See Fig. 3: Seat base, exploded view, page 83, **(B)**

1
Remove seat cushion and seat cushion base. Block the seat in its upper position using a 150 mm (6 in.) extension between the frames. Release bellows at the front of the seat frame, remove nut (37). Disconnect wire connections at motor.

2
Remove the screws (45), pull out the drive cable and lift out the motor.

3
Remove worm gear unit locking plate (64). Remove lock washer (9) and shaft (8). Remove the screw (13), then twist the worm gear unit and spindle nut (27) out of the attachment (65).

8526-03-02-06
Seat Motor, Replacement (Cushion Tilt)



W8001432

Fig. 4: Seat base, exploded view

8	Shaft
9	Lock Washer
13	Worm Gear Unit Screw
27	Spindle Nut
45	Seat Motor Screws
59	Valve Screws
61	Hose
62	Distribution Pipe
64	Locking Plate
65	Seat Motor Attachment

⚠ DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 4: Seat base, exploded view, page 85 **(C)**

1
Remove the seat cushion and seat cushion base. Set the seat at its greatest tilt angle. Disconnect the wire connectors at the motor.

2
Remove the screws (45), pull out the drive cable and lift out the motor.

3
Remove worm gear unit locking plate (64). Remove lock washer (9) and shaft (8). Remove the screw (13), then twist the worm gear unit and spindle nut (27) out of the attachment (65).

8526-03-02-17
Seat Electro-Pneumatic Height Control Valve, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 4: Seat base, exploded view, page 85, **(D)**

1
Remove the seat cushion and seat cushion base. Block the seat in its upper position. Release the bellows from the front and left-hand side of the seat frame.

2
Pull the hose (61) off from the distribution pipe (62). Remove the screws (59) for both valves and disconnect the connector and compressed-air hose for the valve being changed.

3
Install components in the reverse order of removal.

8526-03-02-04
Seat Motor, Replacement (Backrest Tilt)

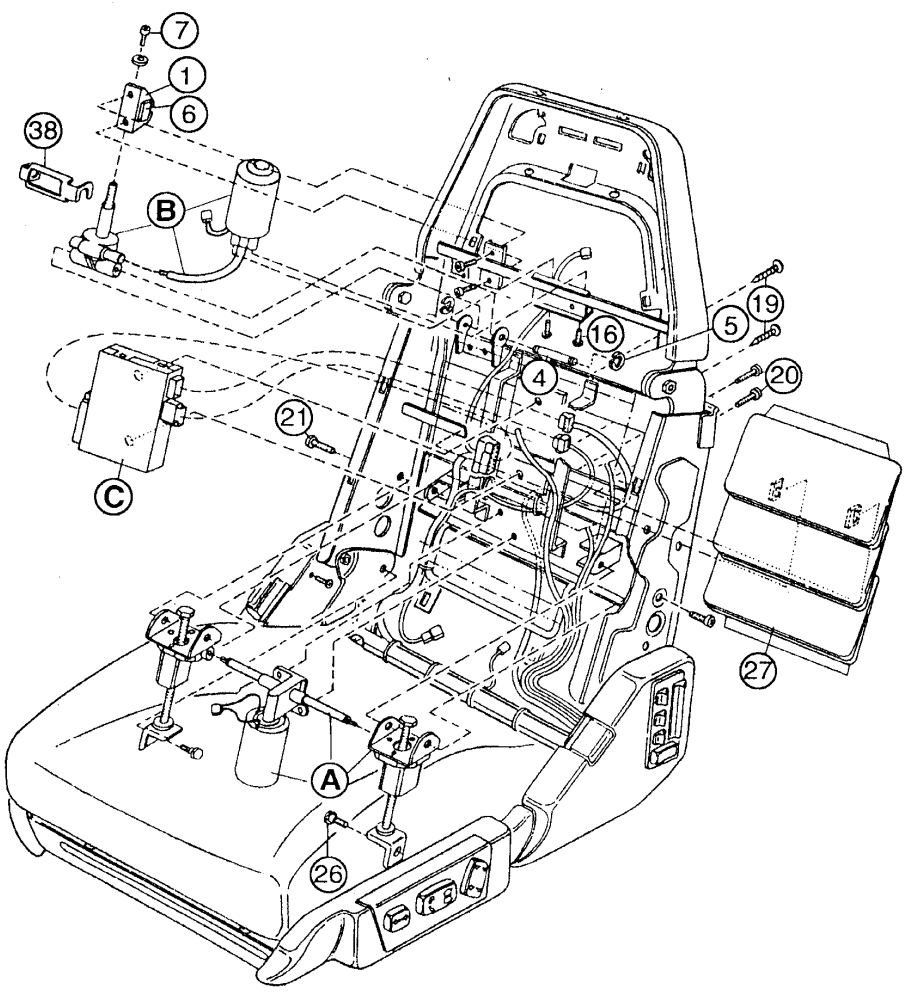


Fig. 5: Seat backrest, exploded view

4	Shaft
5	Lock Washer
7	Screw
16	Screws
19	Control Unit Screws
20	Screws
21	Worm Gear Unit Screws
26	Worm Gear Units Screws
27	Air Cushions
38	Locking Plate

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 5: Seat backrest, exploded view, page 87 **(A)**

1
Remove cover for the lower backrest. Disconnect motor wire connections.

2
Remove the screws (20), pull the drive cables out of the worm gear units and lift out the motor unit.

3
Remove four screws (21) and two screws (26) for the worm-gear units.

8526-03-02-05
Seat Motor, Replacement (Upper Backrest Tilt)

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 5: Seat backrest, exploded view, page 87, **(B)**

1
Remove cover for upper backrest. Disconnect wire connections at the motor.

2
Remove the screws (16), pull out of the drive cable and lift out the motor. Remove locking plate (38) and pull the drive cable out of the worm gear unit.

3
Remove the lock washer (5) and shaft (4). Remove the screw (7).

8526-03-02-18
Seat Control Unit, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 5: Seat backrest, exploded view, page 87, **(C)**

1
Remove cover for lower backrest. Pull all connectors out of the control unit.

2
Remove the two screws (19) and remove the control unit by lifting it up. If necessary, remove air cushions (27). Install components in the reverse order of removal.

8526-03-02-13
Seat Height Control Cylinder, Replacement

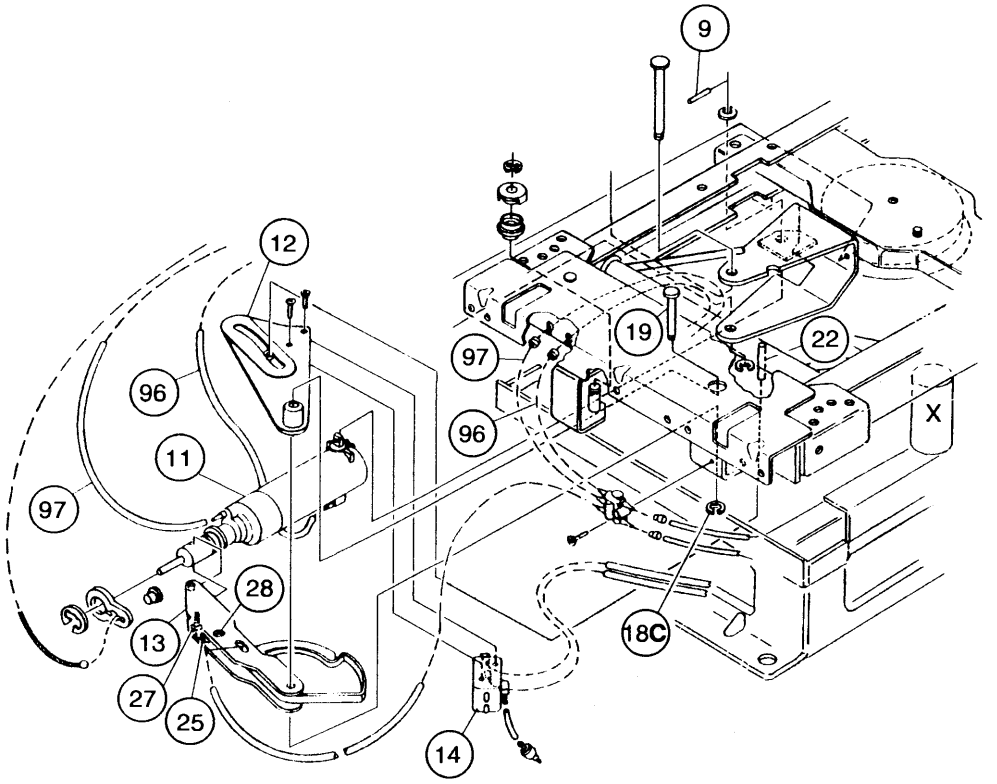


Fig. 6: Seat height control

X	Spacer	**22**	Pin
9	Cylinder Pin	**25**	Lock Cylinder
11	Control Cylinder	**27**	Screw
13	Guide Disc Unit	**28**	Screw
14	Level Control Valve	**96**	Hose
18C	Lock Ring	**97**	Hose
19	Bolt		

⚠ DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 6: Seat height control, page 89 **(11)**

1
Remove the seat cushion and seat cushion base. Release the bellows from the front of the upper and lower frames. Block the seat in its upper position using a 150 mm (6 in.) long spacer (X) placed between the frames.

2
Loosen the clamping sleeves and pull hoses (96) and (97) off from the control cylinder (11). Remove the cylinder pin (9). Loose screw (27) a little and lightly press the guide disc unit (13) lever plates apart where they are connected to the control cylinder and remove the cylinder.

3
Install the components in reverse order of removal. Tighten screw (27) a little . Pull the control for height adjustment upward and check that the lock cylinder (25) can move freely. If not, loosen screw (27) and, if necessary, also screw (28) a little.

8526-03-02-12
Seat Height Setting Guide Plate, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 6: Seat height control, page 89, **(12)**

1
Remove the seat cushion and seat cushion base. Release the bellows from the front and side of the upper frame. Block the seat in its upper position using a 150 mm (6 in.) long spacer (X) placed between the frames.

2
Unscrew the level control valve (14). Remove lock ring (18C) and remove the bolt (19).

3
Pull the guide plate off from the pin (22). Install in the reverse order of removal.

8526-03-02-11
Seat Height Guide Disc Unit, Replacement

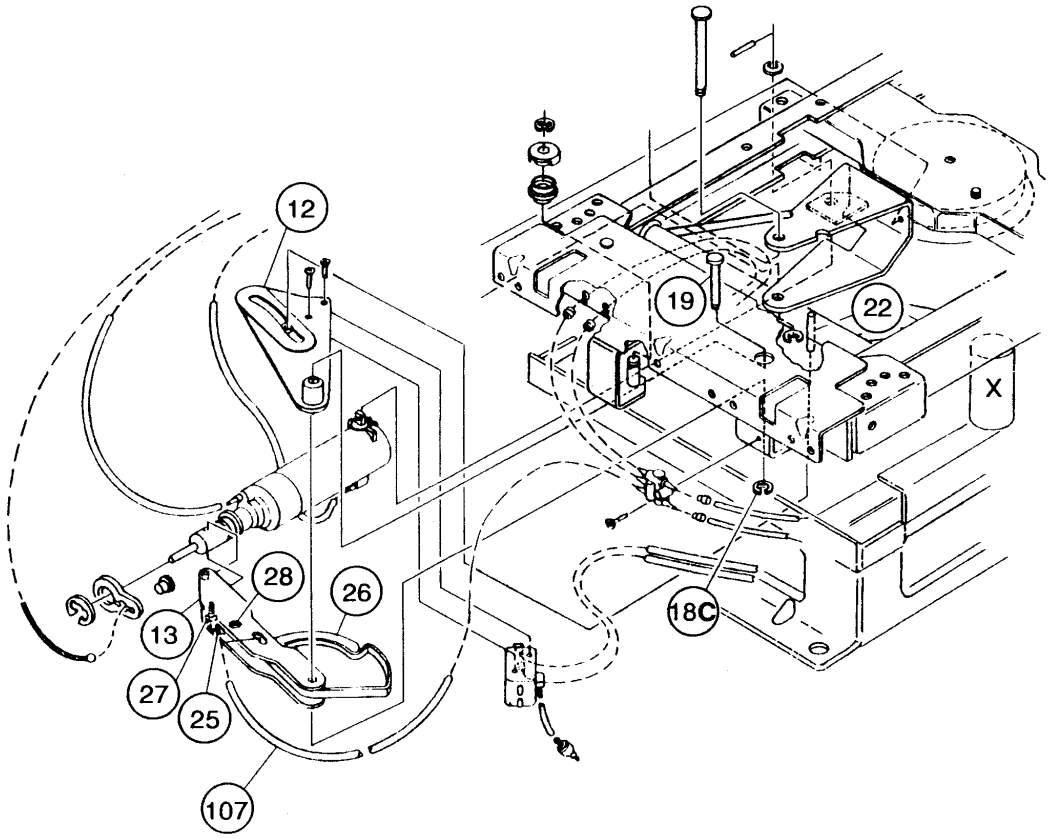


Fig. 7: Seat Height Guide Disc Unit

12	Guide Plate	**25**	Lock Cylinder
13	Guide Disc Unit	**26**	Guide Plate Cam
18C	Lock Ring	**27**	Screw
19	Bolt	**28**	Screw
22	Pin	**107**	Hose

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 7: Seat Height Guide Disc Unit, page 91, **(13)**

1
Remove the seat cushion and seat cushion base. Release the bellows from the front of the upper and lower frames. Block the seat in its upper position using a 150 mm (6 in.) spacer (X) placed between the frames.

2
Pull the hose (107) off from the lock cylinder (25). Remove the lock ring (18C) and remove the bolt (19). Loosen the screw (27) a little and lightly press the guide disc unit (13) lever plates apart where they are connected to the control cylinder and move them to the side.

3
Make sure that the guide plate (12) does not slide off from the pin (22). Should this happen, the ball located in the guide plate cam (26) must be positioned on the pin (22) again.

4
Install the components in the reverse order of removal. Tighten screw (27) a little. Pull the control for height adjustment upward and check that the lock cylinder (25) can move freely. If not, loosen screw (27) and, if necessary, also screw (28) a little.

8526-03-02-10
Seat Height Level Control Valve, Replacement

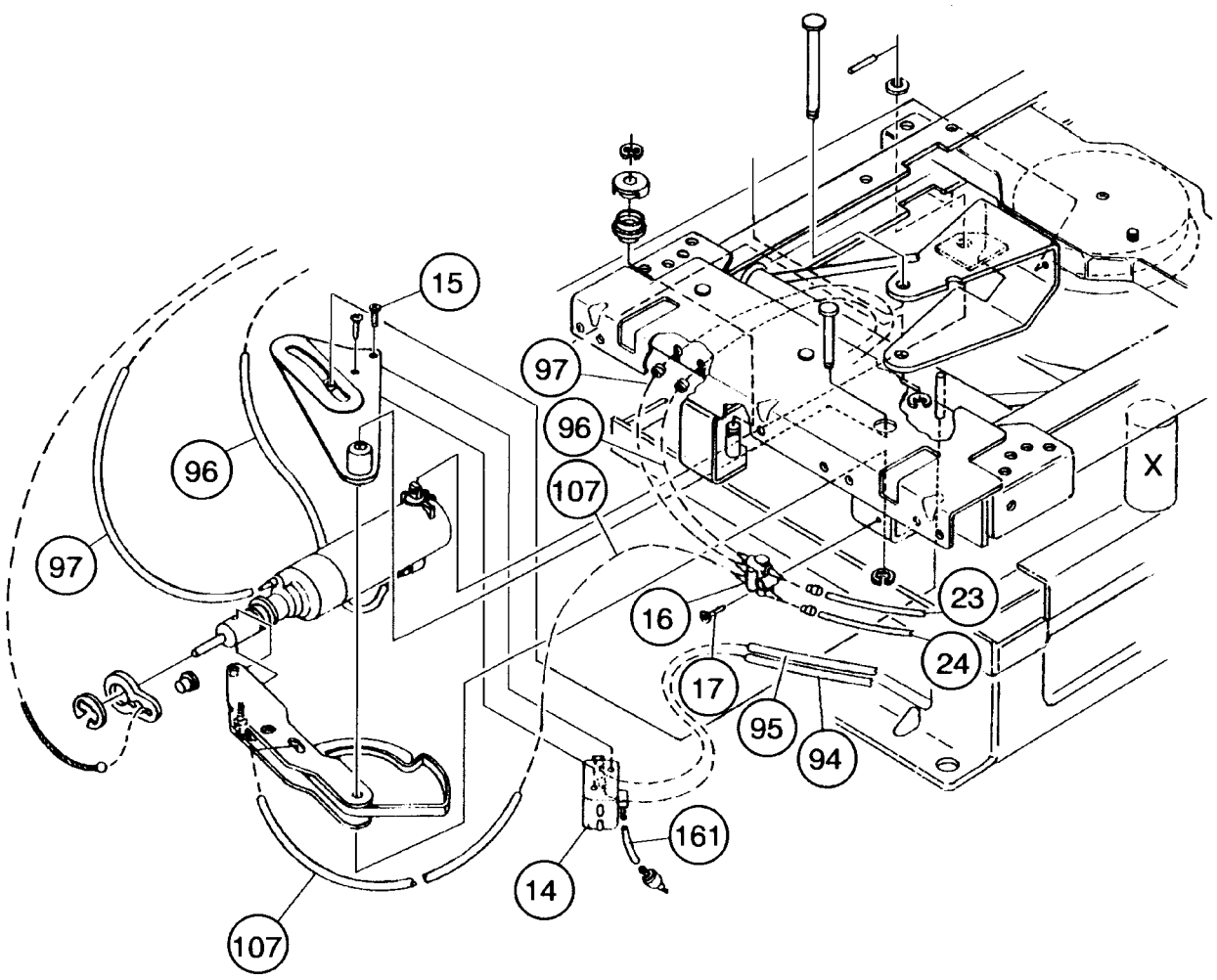


Fig. 8: Seat height control

14	Level Control Valve
15	Screws
17	Screw
23	Hose
24	Hose
94	Hose
95	Hose
96	Hose
97	Hose
107	Hose
161	Hose

⚠ DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 8: Seat height control, page 93 **(14)**

1
Remove the seat cushion and seat cushion base. Release the bellows from the front and side of the upper frame. Block the seat in its upper position using a 150 mm (6 in.) spacer (X) placed between the frames.

2
Remove both screws (15) from the level control valve (14). Loosen the hose clamps and pull off hoses (94), (95) and (161). Install components in reverse from removal.

8526-03-02-09
Seat Height Two-Way Valve, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 8: Seat height control, page 93, **(16)**

1
Remove the seat cushion and seat cushion base. Release the bellows from the front of the upper frame. Loosen the hose clamps and pull hoses (23), (24), (96), (97) and (107) off from the two-way valve. Remove screw (17). Install components in reverse from removal.

8526-03-02-14
Seat Cam Disc, Replacement

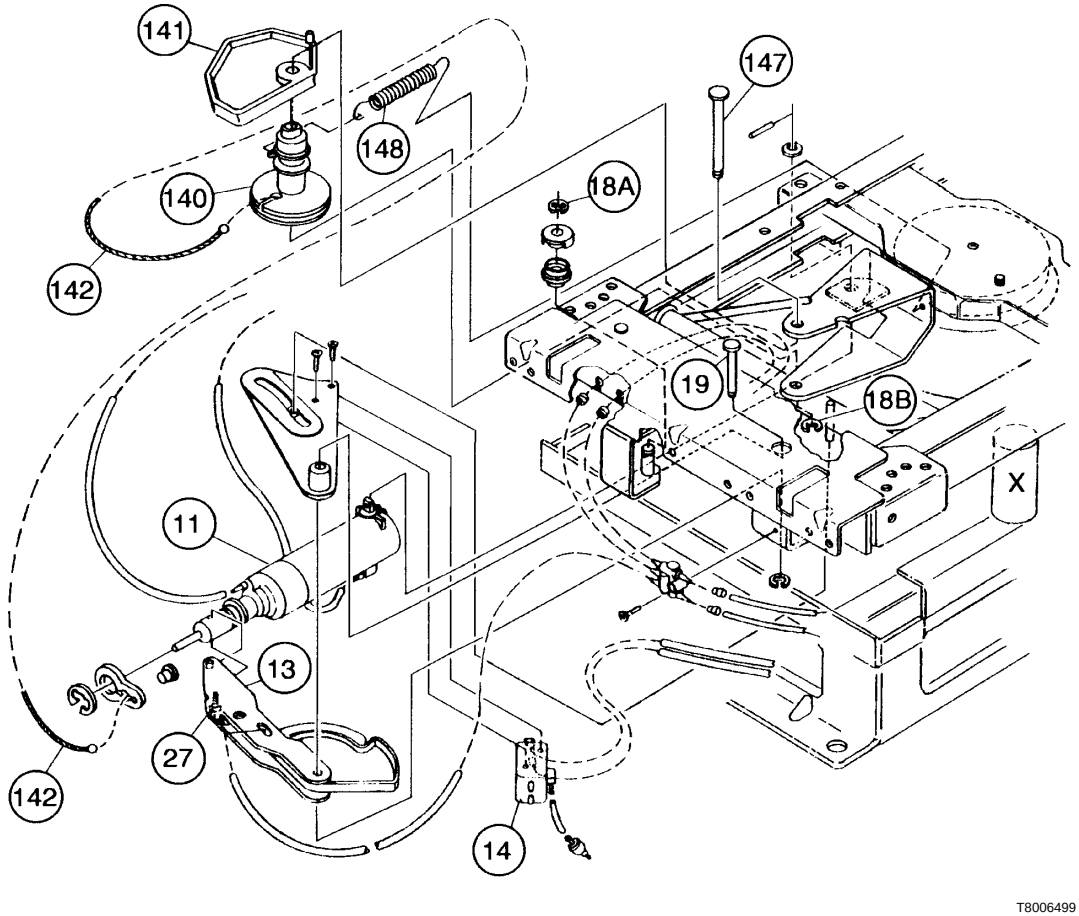


Fig. 9: Seat cam disc

X	Spacer
11	Control Cylinder
13	Guide Disc Unit
14	Level Control Valve
18A	Lock Washer
18B	Lock Washer
27	Screw
140	Cable Pulley
141	Cam Disc
147	Bolt
148	Spring

⚠ DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 9: Seat cam disc, page 95 **(141)**

1
Release the bellows from the front and side of the upper frame. Block the seat in one of the lower positions. Remove the level control valve (14).

2
Remove the lock washer (18B) and pull out the bolt (147). Pull the 7–step cam disc (141) off from the cable pulley (140). Install the components in reverse from removal. First hook the spring (148) into the cable pulley and then secure it to the plate.

8526-03-02-15
Seat Cam Disc Cable, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 9: Seat cam disc, page 95 **(142)**

1
Release the bellows at the front and side of the upper frame. Block the seat in its upper position using a 150 mm (6 in.) long spacer (X) placed between the frames. Loosen screw (27) a little and lightly press the guide disc unit (13) lever plates apart where they are connected to the control cylinder (11) and move them to one side.

2
Remove the lock washer (18A) and take off the cover washer. Unhook the cable at the cable pulley (140). Install the components in reverse from removal.

8526-03-02-16
Seat Air Spring, Replacement

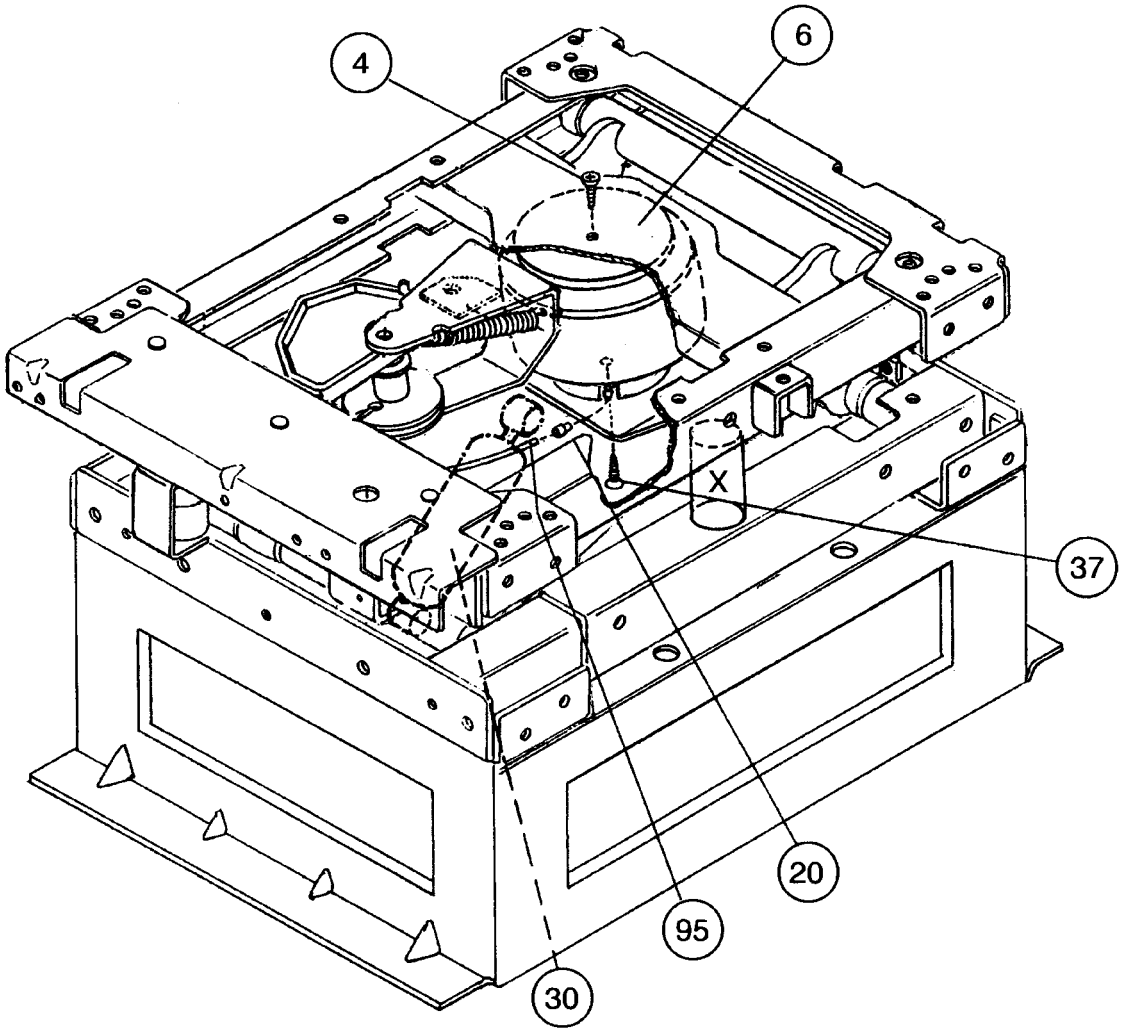


Fig. 10: Seat base, exploded view

X	Spacer
4	Screw
6	Seat Air Spring
30	Seat Vertical Shock Absorber
37	Screw
95	Hose

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 10: Seat base, exploded view, page 97 **(6)**

1
Release the bellows from the front and side of the upper frame. Block the seat in its upper position using a 150 mm (6 in.) long spacer (X) placed between the frames. Pull back the clamping ring on the air spring connection and pull off the hose (95). Remove the screws (4) and (37).

2
Install the components in reverse from removal. The air spring can not be twisted when installed. If necessary, slightly loosen screw (4) and allow the spring to move up and down under pressure. Tighten down the screw while the air spring is under pressure.

8529-03-02-03 Seat Vertical Shock Absorber, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

See Fig. 10: Seat base, exploded view, page 97, **(30)**

1
Release the bellows at the front and side of the upper frame. Block the seat in its upper position using a 150 mm (6 in.) long spacer (X) placed between the frames.

2
Remove the lock washer at the upper shock bushing and remove the screw at the lower shock bushing

8118-03-02-01
Engine Cover, Replacement

DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

Removal

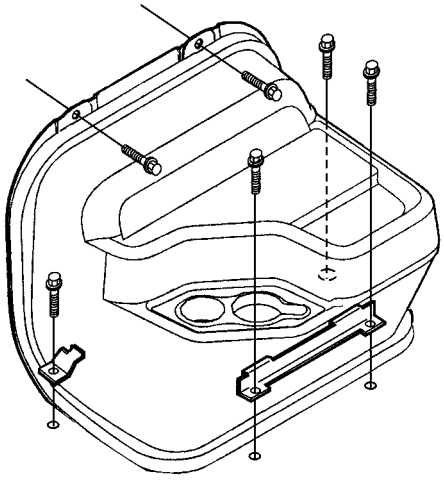
1
Remove passenger seat, see “Seat, Replacement” page 73.

2
Remove the scuff plates in the door opening on both the passenger and driver sides.

3
Remove the lower dash panel.

4
Pull floor mat back on the right side and lay to the side toward the shift lever to uncover the engine cover. Pull back mat on the left side.

5



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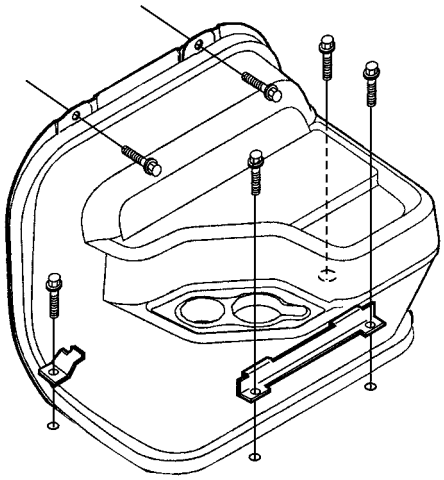
Remove the 4 bolts holding the engine cover to the floor and cowl. — 12 mm socket

6
Pull cover back slightly and swing out from under the dash panel. Lift out of the cab.

Installation

1
Lift engine cover into the cab. Place on the floor and slide up under the dash panel. Line up the holes for the top bolts and enter the bolts. Line up the rear bolt holes. Tighten the bolts. — 12 mm socket

2



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Place floor mat back into position. Install scuff plates. Tighten screws and install the plugs. Torque the screws to 24 ± 4 Nm (18 ± 3 ft-lb). — 12 mm socket; 24 ± 4 Nm (18 ± 3 ft-lb)

3
Install the lower dash panel.

4
Install seat, see “Seat, Replacement” page 73.

Feedback

One of our objectives is that workshop personnel should have access to correct and appropriate service manuals where it concerns fault tracing, repairs and maintenance of Volvo trucks.
In order to maintain the high standards of our literature, your opinions and experience when using this manual would be greatly appreciated.
If you have any comments or suggestions, make a copy of this page, write down your comments and send them to us, either via telefax or mailing directly to the address listed below.

To

Volvo Trucks North America, Inc.

Dept. 516 Service Publications

7825 National Service Road

P.O. Box 26115

Greensboro, NC 27402-6115

USA

Fax (336) 393-3170

From

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Comments/proposals

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Concerns Service Manual: .....

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Volvo Trucks North America, Inc.
P.O. Box 26115, Greensboro, NC 27402-6115
Volvo Trucks Canada, Ltd.
6490 Vipond Drive, Mississauga, Ontario L5T 1W8
http://www.volvotrucks.volvo.com

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